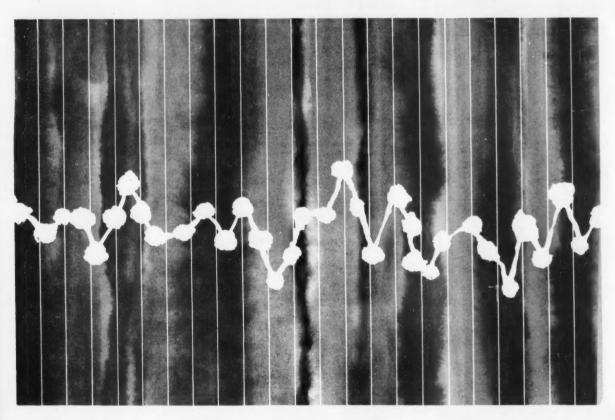
DOCUMENTS

# defense indicators

**DECEMBER 1977** 





U.S. DEPARTMENT OF COMMERCE . BUREAU OF ECONOMIC ANALYSIS

LIERARY

EASTERN MICHIGAN UNIVERSITY

U. S. DEPOSITORY DOCUMENT

JAN 23 1978



This report is prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

Barry A. Beckman—Technical supervision and review.

Morton Somer—Selection of seasonal adjustment methods,

Betty F. Tunstall—Collection and compilation of basic data.

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1980.

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## defense indicators

December 1977 Series ES4 No. 77-12

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#### **6 BEA PROJECTS**

for economic analysis

## BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together many of the economic time series found most useful by business analysts and forecasters. The dominant feature is the cyclical indicators section in which approximately 110 business cycle indicators are each assigned a three-way timing classification according to their cyclical behavior at peaks, at troughs, and at all turns. This section also contains other valuable aids for the analysis of business conditions and prospects, such as composite indexes of leading, coincident, and lagging indicators and various diffusion indexes. A second section contains other important economic measures such as prices, wages, productivity, government activities, U.S. international transactions, and international comparisons.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

## DEFENSE INDICATORS A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

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This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

## COMPUTER PROGRAMS FOR TIME SERIES ANALYSIS The source statements for FORTRAN IV programs used by BEA in its analysis of time series are available on a single computer tape.

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DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

## SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

## BUSINESS STATISTICS A biennial reference volume containing statistical series reported currently in the Survey of Current Business.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

#### Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

#### Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

#### Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)

Federal Government purchases of goods and services, national defense (BEA)

National defense purchases as a percent of gross national product (BEA)

Gross national product, changes from previous quarter (BEA) National defense purchases, changes from previous quarter (BEA)

#### Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)

Defense Department gross obligations incurred, procurement (DOD)

Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accession rate, defense products industries (BLS)
Layoff rate, defense products industries (BLS)

#### Intermediate and Final Indicators of Defense Activity

Output of defense and space equipment (FRB)

Manufacturers' inventories (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census)

Defense Department progress payments outstanding (DOD) Employment in defense products industries, total (BLS) Employment in defense products industries, production workers (BLS)

Index of aggregate weekly hours, defense products industries (BLS)

Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department personnel, military, active duty (DOD)
Defense Department personnel, civilian, direct hire employment (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury) Defense Department personnel compensation (DOD)

Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census)

Ratio, manufacturers' unfilled orders to shipments (Census): Defense products industries

Defense products

Ratio, manufacturers' inventories to shipments (Census):

Defense products industries

Defense products

#### **Defense-Related Balance of Payments Components**

Transfers under U.S. military agency sales contracts—exports (BEA)

Direct defense expenditures—imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

#### **Description of Basic Data**

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly Status of Funds report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The Status of Funds report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's Contract Awards report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The Contract Awards report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the Status of Funds report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts	372 1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments<sup>1</sup> classified into the following industry categories in accordance with the Standard Industrial Classification Manual, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	366
Aircraft and parts	372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey* 

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).<sup>2</sup>

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

<sup>&</sup>lt;sup>1</sup>An establishment is a single physical location where business is conducted (e.g., a plent). A company often includes more than one establishment.

<sup>&</sup>lt;sup>2</sup>See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Table A. Summary of Recent Data and Current Percent Character Schemester Schemester Indianated Information Control of the Cont

series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions, and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

bas Most of the series in this report are shown in seasonally educated form? For Defense Department and BLS series, a unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

month variation in the data can be seen in appendix B. There, the first two cdlums show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the semponents of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The months for cyclical dominance (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percently 32/43430

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot oppoints. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of menth) or "EOO" (end of quarter). The number in the box at the right of each series indicates, the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g. data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

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659	0.0	6.2	NA 3.5	5.7	32.6	6.6	6.9	6.9	6.9	6.5	6.6	6.6	Bit. dol., and of period	659. Mfrs.' inventories, defense products (Census)
664	AU	5.7			1			AM	24.3	23.0	1		ob	RA Manufacturers' unfilled orders from the U.S.
666	-10.3	2.4							6.47	1	21.7	21.8	ob	Covernment, seraspace industries (Census)
670				995	1	1000	1000	7.8	8,71	8.5	8.5	15.11		(Control of the control of the contr
671	0.0	1.4	AM AM	-3.6	AN	New	Featu	res ar	d Chan	ges fo	r This	Issue	Thousands do	Employment in defines products industries (BLS): 870. Total
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		21.0		1	0,51	18.21	7.1.	12.0	12.5	8.11	13.5	14.5	Ratio	
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547	112	296				1		5,724	5,612	5,316	4,847		dob .lim	contracts—exports (REA)*  547 Direct defense expenditures—imports (BEA)* (B
696	288	-436				1 1			7,532					
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#### Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

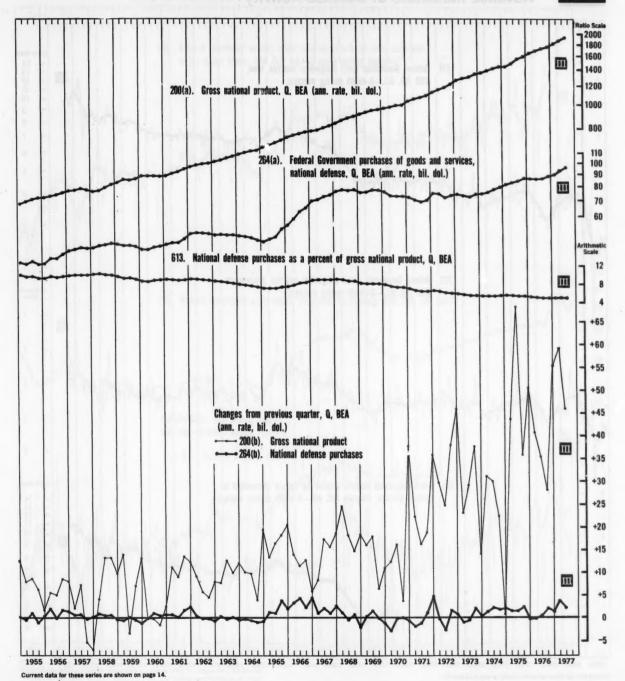
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	messure 1	1975	1976	1st Q 1977	2d Q 1977	3d Q 1977	Sept.' 1977	Oct. 1977	Nov. 1977	to Oct. 77	to Nov. '77	2d Q '77	3d Q 77	Series
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES						7	4.0						7	
200. Gross netional product (BEA)	Ann. rata, bil. dol	1528.8	1706.5	1810.8	1869.9	1915.9						3.3	2.5	200
284. Federal Government purchases of goods and services, national defense (BEA)	do	83.9	86.8	89.7	93.4	95.6						4.1	2.4	264
613. National defense purchases as a percent of GNP (BEA) <sup>2</sup>	Percent	5.5	5.1	5.0	5.0	5.0		•••		•••	•••	0.0	0.0	613
ADVANCE INDICATORS OF DEFENSE ACTIVITY									77			1 1 -		
Defense Dept. gross obligations incurred (DOD):	Ann. rate.		-, -						12 1			201 5	100	17.
617. Total	bil. dol	98.5	109.9	117.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	617
621. Procurement	de	20.4	24.6	24.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Government for national defense (Tressury) 625. Defense Department military prime contract	do	104.1	117.9	126.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	623
awards for work performed in the U.S. (DOD) 643. Defense Department gross unpeid obligations	Bil. dol., end	43.3	50.1	51.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	625
outstanding (DOD).	of period	41.3	50.1	52.4	53.3	48.7	48.7	53.1	NA	9.0	NA	1.7	-8.6	643
848. Mfrs.' new orders, defense products (Census)	Ann. rate, bil. dol	25.2	29.5	24.2	36.3	22.2	19.6	51.2	44.8	161.2	-12.5	50.0	-38.8	648
650. Menufecturers' new orders from the U.S. Government, serospece industries (Consus)	do	18.3	21.2	18.0	25.7	NA						42.8	NA	650
863. Average weekly overtime hours, production workers, defense products industries (BLS) <sup>1</sup>	Hours	2.5	2.5	2.8	3.0	2.9	3.2	3.1	NA	-0.1	NA	0.2	-0.1	653
654. Accessions, defense products industries	Number per 100							1			- 77			
(BLS) <sup>1</sup> . 856. Leyoffa, defense products industries (BLS) <sup>1</sup>	employees	1.4	1.6	0.5	0.4	1.8	1.8	NA NA	NA NA	NA NA		-0.1	0.2	654 655
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY						10.		-			7 - 10-			
857. Output of defense and space squipment (FRB) 859. Mfrs.' inventories, defense products (Census)	1967=100 Bil. dol., end	80.0	78.4	78.3	80.1	,80.7	80.9	79.3	79.0	-2.0		2.3	0.7	657
981. Mfrs.' unfilled orders, defense products (Census)	of period	29.2	32.2	30.4	6.9	6.9 29.8	29.8	31.5	32.6	-4.3 5.7	NA 3.5	6.2	0.0	659 661
664. Menufecturers' unfilled orders from the U.S. Government, sercepace industries (Consus)	do	21.8	21.7	23.0	24.3	NA						5.7	NA	664
666. Defense Department progress payments out- standing (DOD)	do	11.3	8.5	8.5	8.7	7.8			•••			2.4	-10.3	666
670. Total	Thousands	1,118	1,064	1,066	1,081	1,087	1,084	1,045	NA	-3.6		1.4	0.6	670
. 671. Production workers	do	570	531	529	540	545	545	518	HA	-5:0		2.1	0.9	673
673. Index of aggregate weekly hours, defense products industries (BLS)	1967=100	66.0	62.8	63.4	64.4	64.8	64.6	62.3	NA	-3.6	NA	1.6	0.6	673
675. Index of aggregate weekly psyrolls, production workers, defense products industries (BLS)	do	100.5	101.2	107.2	112.6	115.4	116.4	109.7	HA	-5.8	NA	5.0	2.5	. 675
677. Military, active duty	Thousands, end of period	2,084	2,072	2,075	2,075	2,075	2,075	2,072	2,069	-0.1	-0.1	0.0	0.0	677
678. Civilian, direct hire employment  Defense Department net outlays (DOD): 680. Total, military functions and military	Ann. rate,	1,028	995	995	1,009	982	982	983	NA	0.1	NA	1.4	-2.7	678
882. Procurement	bil. dol	88.5	88.3	95.6	93.9	105.1	107.3	97.1	102.9	-9.5 7.8	34.4	-1.8	8.0	680
683. Budget outlays for the national defense function	do	92.5	89.1	96.7	95.2	107.7	108.9	99.5	104.4	-8.6	1	-1.6	13.1	683
(Tressury) 685, Defense Dept. personnel compensation (DOD)	do	34.6	35.5	36.1	37.2	37.3	37.6	38.7	NA	2.9	NA	3.0	0.3	685
688. Mfrs.' shipments, defense products (Census)	do	17.3		31.5	30.5	30.6	30.8	30.5	31.2			-3.2	0.3	686
681. Platio, menufacturers' untilled orders to shipments.			1					•••	•••	1 "				
defense products (Census)  603. Ratio, menufacturers' inventories to shipments, defense products (Census)	Retio do	14.5	13.5		12.5	12.0	2.7	12.4	12.6		1	4.0	3.8	69:
Antonios himanios faquesta e e e e e e e e e e e e e e e e e e e		-	1						-	1		1	3.0	1 "
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS	-					-		-	-			-		
548. Transfers under U.S. military agency sales	Ann. rate,													1
contracts-exports (BEA) <sup>1</sup> .  547. Direct defense expenditures-imports (BEA) <sup>1</sup> .	mil. dol do	4,795		7,380 5,316		8,032 5,724		***	:::		:::	-524 296	1,176	
896. U.S. Government cash receipts associated with military sales contracts (BEA) <sup>1</sup> @	do	4,587	8,213	7,968	7,532	7,820						-436	288	69

NOTE: This table is presented as a convenient summery of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies; otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are secondly adjusted except for those indicated by (g), which appear to contain no second movement.

NA = not mentalible. = "Differences are tables." The prevent changes are shown for this series.

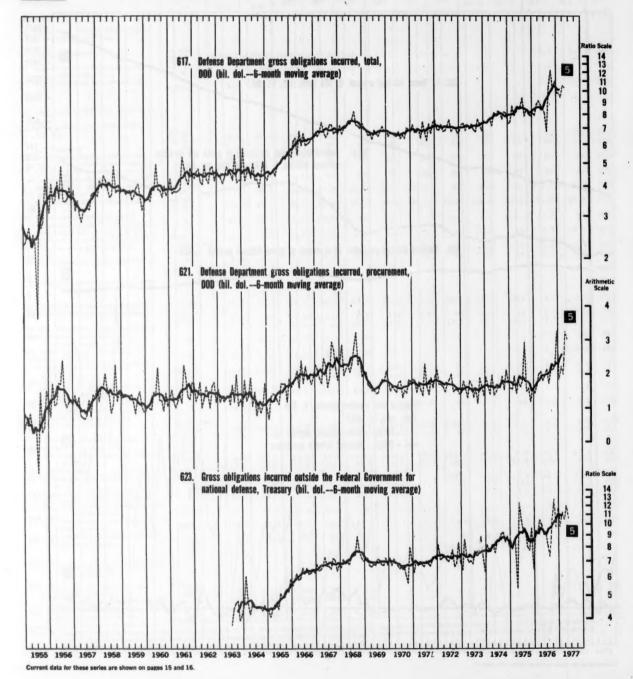
## CHART

#### **Gross National Product and National Defense Purchases**

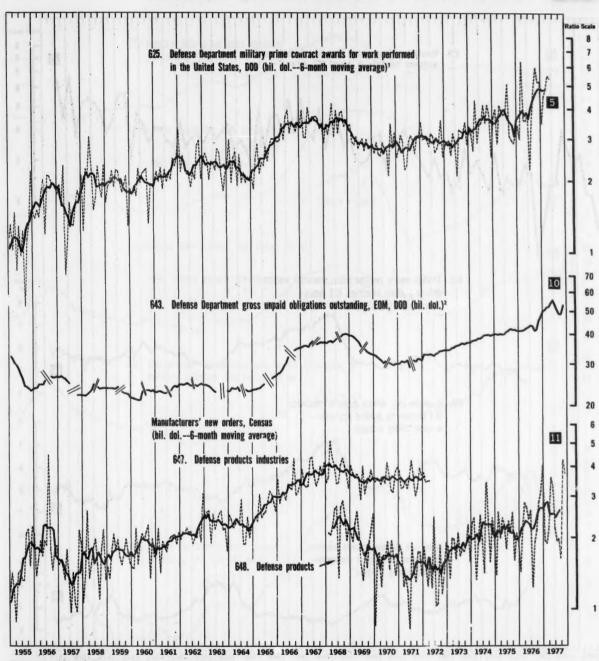




### **Advance Indicators of Defense Activity**



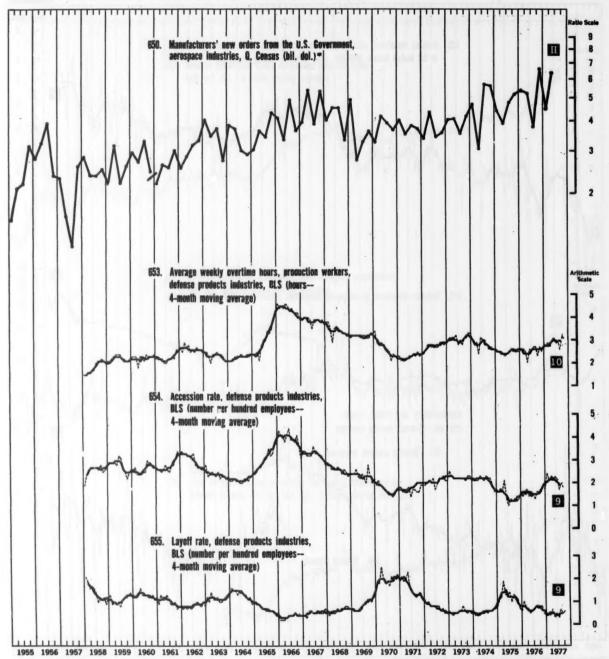




<sup>1</sup>Data prior to July 1955 exclude orders written to other Government agencies.

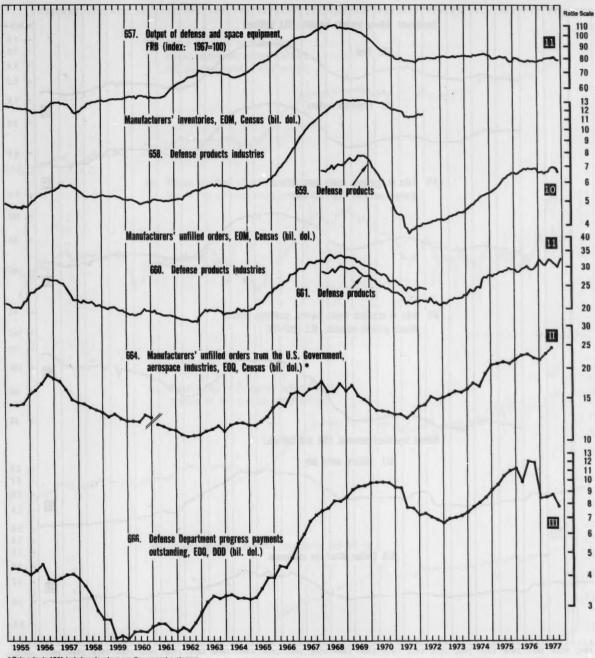
<sup>2</sup>Data for the following months not available: July of 1956-71; August of 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and hovemoer of 1953. Current data for these series are shown on pages 16 and 20.





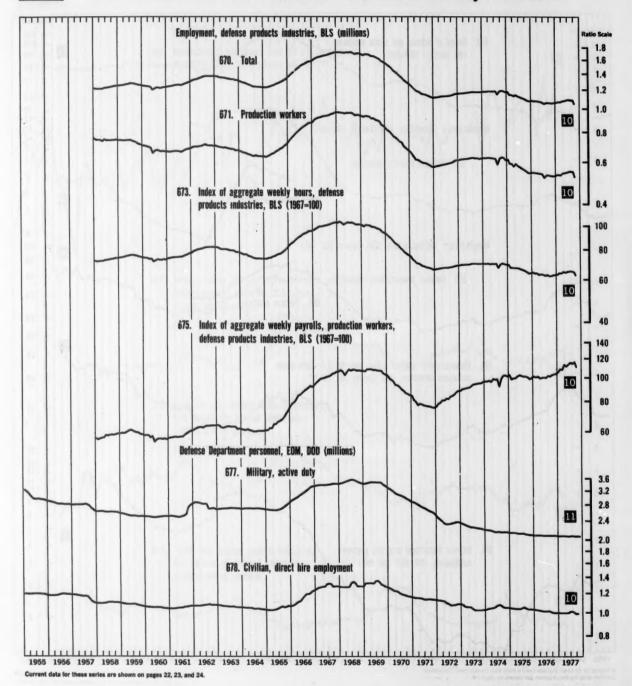
\*Data prior to 1961 include orders from non-Government customer Current data for these series are shown on pages 20 and 21.



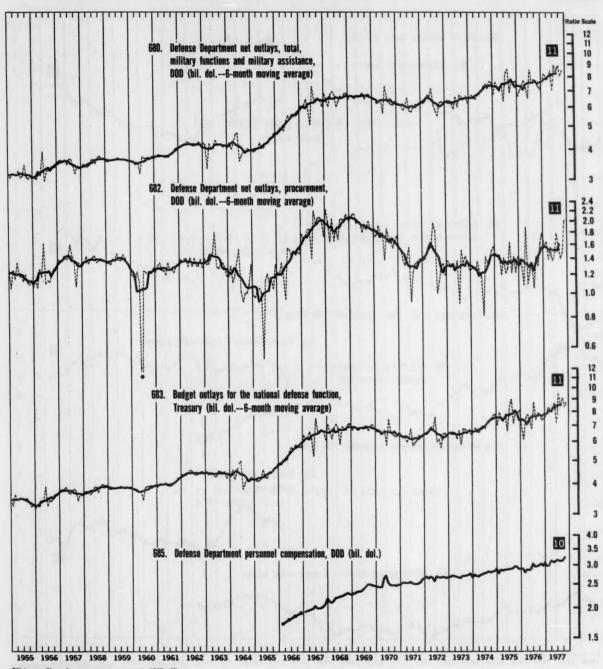


\*Data prior to 1961 include orders from non-Govern Current data for these series are shown on page 22.



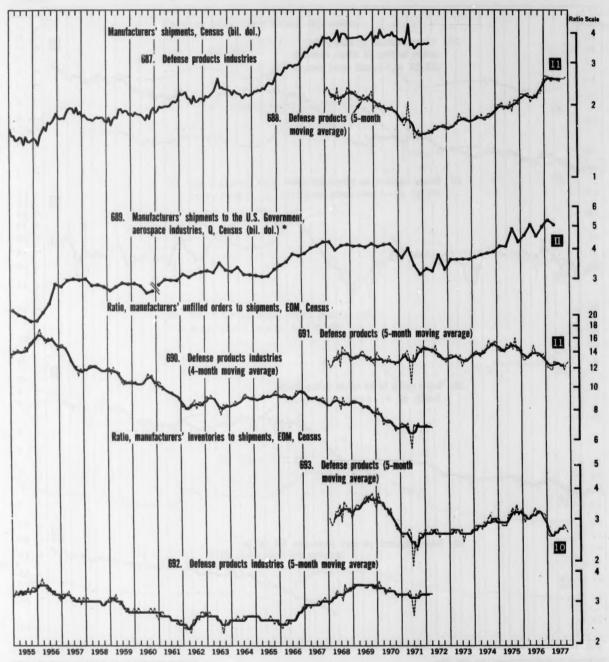






♦Net expenditures for procurement, June 1960--\$245 million Current data for these series are snown on pages 24 and 25.

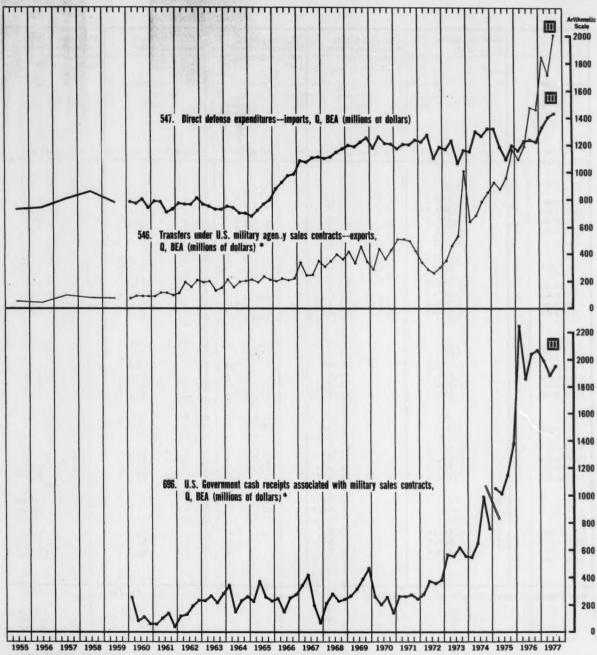




\*Data prior to 1961 include shipments to non-Government customers Current data for these series are shown on page 26.

11

## **Defense-Related Balance of Payments Components**



♦See footnotes 1 and 2 on page 27.
Current data for these series are shown on page 27.



## **Gross National Product and National Defense Purchases**

Year and quarter	200(e). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1973					
First quarter Second quarter Third quarter Fourth quarter	1,265.3 1,288.4 1,317.5 1,355.1	74.1 73.1 72.5 74.4	5.9 5.7 5.5 5.5	45.9 23.1 29.1 37.6	0.8 -1.0 -0.6 1.9
1974		100			
First quarter	1,369.0 1,400.1 1,430.1 1,452.4	74.6 75.8 77.9 79.6	5.4 5.4 5.4 5.5	13.9 31.1 30.0 22.3	0.2 1.2 2.1 1.7
1975					
First quarter Second quarter Third quarter Fourth quarter	1,453.0 1,496.6 1,564.9 1,600.7	81.6 83.0 84.4 86.7	5.6 5.5 5.4 5.4	0.6 43.6 68.3 35.8	2.0 1.4 1.4 2.3
1976					
First quarter Second quarter Third quarter Fourth quarter	1,651.2 1,691.9 1,727.3 1,755.4	86.3 86.0 86.4 88.4	5.2 5.1 5.0 5.0	50.5 40.7 35.4 28.1	-0.4 -0.3 0.4 2.0
1977	1//		1000		
First quarter	1,810.8 1,869.9 r1,915.9	89.7 93.4 r95.6	5.0 5.0 5.0	55.4 59.1 r46.0	1.3 3.7 r2.2

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. "Indicates series shown in charts. (See page 5.)



## **Advance Indicators of Defense Activity**

Year and month		-								
		617. Total		619. Op	perations	621. Procurement				
month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*		
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)		
1975										
lanuary	8,252	7,341	7,916	5,471	5,148	1,895	1,603	1,772		
ebruary	6,904	7,467	7,958	4,604	5,220	1,569	1,575	1,755		
March	7,526	8,677	7,956	4,787	5,251	1,994	1,960	1,701		
April	7,403	7,933	8,033	5,424	5,209	1,147	1,448	1,674		
May	6,796	8,199	8,246	4,761	5,121	1,147	1,813	1,711		
June	11,027	8,583	8,569	6,275	5,560	2,693	1,644	1,939		
July	9,903	8,614	8,440	6,641	5,624	1,510	1,827	1,865		
August	9,812	9,406	3,516	5,337	5,327	2,508	2,940	1,891		
September	7,705	7,907	8.494	5,203	5,442	1,506	1,515	1,790		
October	9,045	8,387	9,385	6,130	5,660	1,733	1,605	1,78		
November	6,976	8,069	8,304	4,829	5,334	1,320	1,206	1,72		
December	7,156	7,925	8,064	4,895	5,373	1,428	1,612	1,511		
January	8,652	3,132	8,220	6,010	5,729	1,697	1,453	1,59		
February	7,206	7,962	8,344	4,745	5,203	1,664	1,672	1,670		
March	8,241	8,842	8,461	4,995	5,354	2,093	2,014	1,775		
April		9,134	8,556	5,946	5,784	1,688	2,096	1,84		
May	6,325	8,772	8,553	4,828	5,419	1,155	1,828	1,95		
June	11,319	8,491	8,365	5,949	5,059	3,218	1,983	1,97		
July	9,593	8,116	8,628	6,362	5,369	1,812	2,157	1,99		
August	7,427	6,833	9,148	5,055	5,010	1,458	1,747	2,00		
September	9,840	10,424	9,412	6,120	6,335	2,152	2,147	2,07		
October	12,635	12,255	9,831	7,447		2,312	2,157	2,28		
November	9,620	10,355	10,120	5,561		2,497		2,23		
December	9,903	11,003	10,641	5,341	5,882	2,855	3,270	2,31		
January	9,838	9,848	10,480	6,352	6,114	2,138		2,28		
February	8,737	9,963	10,216	5,501	6,223	2,206		2,47		
March	8,957	9,458	r10,230	5,537	5,928	2,086	1,987	2,59		
April	10,092	10,668	(NA)	6,365		2,640		(NA		
May		r10,437		5,344		1,908				
June	9,450	(1)		5,739	(1)	2,077	(1)			
July				6,195		1,249				
August			1	5,337		1,861				
September	11,642			6,517		3,511				
October				7,786 (NA)		2,898 (NA)		-		

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 6.)
\*See "New Features and Changes for This Issue," page 3.



	623. Gross obliga outside the Feder	ral Govern-			Defense Departme work perfor	ent military prime med in the United		or	
Year	ment for national Treasury	I defense,		625. Total	1:	626.	Aircraft		le and space tems
and month	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975							1		70
January February March	8,069 8,271 8,590	8,422 7,894 8,472	3,567 3,321 2,625	3,693 3,987 2,817	3,494 3,488 3,513	1,062 509 421	1,873	346 276 244	1,20
April	5,335 12,426 pl0,487	p8,863 p9,084 p9,259	2,914 2,713 6,626	4,122 3,926 3,773	3,720 3,744 3,925	316 386 732	1,524	377 242 537	1,45
July	9,397 9,321 8,092	p9,176 p9,592 p9,137	4,376 5,295 3,179	3,842 5,072 3,080	3,969 3,776 3,600	810 1,254 469	2,413	661 1,070 379	1,46
October November December	7,830 9,697 6,537	8,479 8,492 3,467	3,174 2,608 2,870	2,961 2,872 3,130	3,493 3,420 3,074	817 373 483	1,770	463 498 426	1,31
1976 January February March	9,476 9,168 10,511	8,870 9,235 9,142	3,288 2,529 5,356	3,407 2,993 6,309	3,612 3,716 3,832	546 356 2,064	2,744	341 278 243	1,23
April	10,022 9,137 p9,383	p9,616 p9,410 p9,100	2,600 2,563 6,843	3,586 3,565 3,817	3,946 3,751 3,863	326 576 1,562	2,694	290 213 602	1,37
July	8,238 7,307 10,597	p9,114 p9,557 p9,650	2,592 3,969 4,934	2,234 3,665 4,929	3,633 4,025 4,294	416 914 799	2,011	287 422 521	84
October November Decamber	12,679 9,698 11,684	10,034 10,290 10,958	6,269 4,580 4,543	5,942 5,175 5,198	4,524 4,731 4,866	896 1,140 1,442	3,661	771 1,060 639	2,34
January February	9,777 11,313 10,476	10,938 10,825 r10,970	3,360 3,685 4,325	3,478 4,472 4,843	4,851 4,780 4,809	955 959 680	2,380	355 362 610	1,92
April	12,000 r10,569 1(10,883)	(NA)	4,041 3,778 3,349	5,513 5,351 (²)	(NA)	1,274 852 695	(2)	371 309 387	(a).
July	1(6,746) 1(10,840) (NA)		3,696 3,750 7,371			1,280 494 644		354 251 657	
October			(NA)	1.5		(NA)	-6	(NA)	3

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 6 and 7.)

<sup>\*</sup>Not seasonally adjusted. See "New Features and Changes for This Issue," page 3.

\*See "New Features and Changes for This Issue," page 3.



			Defense Department m in the	ilitary prime contract av United States, DOD-Co	wards for work perform	ed		
Year and	628. Ships, not seasonally adjusted	629. Weapons	and ammunition	630. Electronic ar	nd communications pment	631. Combat vehicles		
month		Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1975						(	(ми. дол.)	
January	325	125						
February	251	160	537	414		21		
March	11	217		331	1,404	56	28	
	10.00			535	•••	52		
April	621	147		313				
May	94	128	577	587	1 205	23		
June	858	672		696	1,305	86	19	
lulu	25.0			030	•••	161		
July	250	52		394				
	814	126	545	470	1,410	126		
September	439	95		430		70	25	
October				130	•••	90		
November	30	128		439				
December	211	66	375	445	1,280	67		
	211	146		332	1,200	14	17.	
1976					•••	62	***	
anuary	310	7.						
ebruary	124	76	•••	263		48		
March	1,213	101	348	305	1,110	26	220	
	-/	148	•••	442	•••	61	238	
April	306	158	'			0.1		
May	65	135	1 :::	348	***	32		
une	346	450	447	381	1,204	63	415	
		430	•••	735	***	512		
uly	506	52						
lugust	91	90	1,112	207	***	4		
eptember	396	413		506	1,478	150	242	
		410	•••	664	***	119		
ctober	861	108						
lovember	153	121	453	410	• • • •	252		
ecember	178	173		710	1,778	47	683	
1977				566	•••	204		
	202	+						
anuary	283	90		427		2.1		
ebruary	478	177	427	436	1,470	74	:::	
a.c.,	483	131		473	1,470	74 152	568	
pril	322	100				132	• • •	
ay	273	193	400.000	615	•••	25		
ine	288	225	(1)	521	(1)	71	/11/***	
	200	132		512	, ,	69	(1)***	
ıly	118	333				0,9		
ugust	283	133		460		39		
ptember	1,078	218		731		65		
1	1,076	661		1,245		170		
ctober	(NA)	(1111)				170		
ovember	(MA)	(NA)		(NA)		(NA)		
acember	1					( )		

NA=not available; p=preliminary; r=revised; e=estimated.

<sup>\*</sup>See "New Features and Changes for This Issue," page 3.



	Defense Department military prime contract awards for work performed in the United States, DOD—Continued													
Year	632. Othe	er hard goods	633. Sc	oft goods	634. Cor	nstruction	635. Services							
Year and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted						
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)						
1975								1						
January	154		217		168		307							
February	143	497	704	1,489	134	481	341	1,396						
March	152		191		127		201							
April	147		164	***	156		190							
May	165	487	121	658	291	338	211	925						
June	399		213	•••	1,073	•••	574	•••						
lake	104		811		82		634							
July	115	532	307	937	61	486	570	1,136						
September	150		256		178		204							
Johrennet	130		250	•••	1,0		204							
October	201		173		149		216	1						
November	156	631	214	687	56	605	210	523						
December	179		244		176		121							
1976														
January	190		817		85		244							
February	180	590	330	1,611	107	448	256	1,111						
March	166		187		151		230							
April	173	1 111	221		198		179	• • •						
May	159	434	120	780	213	611	158	881						
June	316	•••	243	•••	791	•••	587	•••						
July	92		287		79		335							
August	177	792	513	646	196	1,073	504	1,01						
September	324	132	171		403	1	429							
september	1		1		403		127							
October	105		1,760		42		660							
November	226	600	220	2,603	32	385	391	1,35						
Dacember	199		295		136		275							
1977														
					4			1						
January	213		163		125		241							
February	141	635	181	944	101	594	371	1,23						
March	222	•••	538		175	•••	242	1.						
April	237		166		142		211							
May	203	(1)	156	(1)	456	(1)	220	(1)						
June	214	1 ''	200	( )	228	1	204	( )						
					1									
July	271		170		160		215							
August			191		531		243							
September	460		253		762		718							
October				1				1						
October			(NA)		(NA)		(NA)	1						
November					1			1						
December	1	1	1	1		1		1						

NA=not evailable; p=preliminary; r=revised; e=estimated.

<sup>\*</sup>See "New Features and Changes for This Issue," page 3.



Toma Salah			ilitary prime contract a United States, DOD-C	wards for work performed ontinued	1	prime contra	partment military ct awards for	
Year and month	636. Contracts	under \$10,000		nal and nonprofit	638. Civilian Health and Medical	work outside the United States, DOD		
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Program of the Uniformed Services (CHAMPUS), not seasonally adjusted	Not seasonally adjusted	Seasonally adjusted (Mil. dol.)	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)		
1975								
January	372	•••	51		5	114	***	
February	345	1,144	61	205	0	93	388	
March	419	•••	53		2	96		
	4.		1			7.2		
April	418	. :::	42		0	73	012	
May	367	1,141	35	201	. 0	86	813	
June	635	•••	76	•••	0	558		
July	263		184		5	244		
August	345	1,218	92	253	i	149	317	
September	409	1,210	80	233	0	124		
ooptomber								
October	374		67		0	252		
November	412	1,273	50	192	0	164	941	
December	408		82		0	255	•••	
1976							144	
January	327		39		2	286		
February	416	1,156	48	163	2	95	681	
March	405		44		2	139	•••	
						1		
April		1	68		1	147	600	
May	430	1,100	50	254	0	93 306	609	
June	625		73		1	306		
July	253		74		0	208		
		1,458	55	142	0	132	424	
August	615		74		1	347		
						535		
October			203	1::	0	575	962	
November		892	127	415	0	107		
December	358		78	•••	0	175	***	
1977								
January	365		69		0	362		
February		1,279	61	285	0	74	878	
March		1,273	91		0	191		
	1	1		_				
April			65		0	101	/11/***	
May	451	(1)	41	(1)	0	103	(1)	
June			36		0	157		
lake	440		47		0	190		
July		1 1 1 1 1	50		0	174		
August		1100	80		0	613		
September	043		80			313		
October		125	(NA)		(NA)	(NA)		
November								
December	•				1	1	1	

NA=not available; p=preliminary; r=revised; e=estimated.

<sup>&#</sup>x27;See "New Features and Changes for This Issue," page 3.



		Defense Dep	artment gross unpa	aid obligations out	standing, DOD		new orde	ufacturers' rs, defense	650. Manufac- turers' new orders from the
W	643	. Total	644.0	perations	645. Pr	ocurement	product	s, Census	U.S. Govern- ment, aerospac
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	industries, Census, seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975									
January	40,819	40,052	7,997	7,625	25,484	24,838	1,398	2,004	
February	40,008	39,875	7,520	7,626	25,452	24,568	2,576	2,147	4,415
March	39,473	40,198	7,169	7,775	25,688	25,259	1,996	2,118	
April	38,589	39,918	7,276	7,794	24,932	24,957	2,445	2,080	
May	37,120	40,086	6,746	7,713	24,321	25,099	2,266	2,242	3,912
June	39,557	40,959	7,303	8,005	25,311	25,438	1,799	2,167	
July	e41,470	e41,437	e8,733	e8,548	e25,167	e25,370	2,367	2,262	
August	43,248	42,140	8,677	8,132	26,070	26,684	2,130	2,123	4,783
September	43,084	41,805	8,677	8,216	26,002	26,479	2,563	2,095	
October	43,754	41.845	9,259	8,247	26,081	26,238	1,610	2,118	
November	42,767	41,468	8,804	8,353	25,810	25,707	2,100	1,963	5,227
December	41,551	41,309	8,261	8,241	25,507	25,305	1,937	1,974	
1976		1	.,			-	.,,,,		
January	42,110	41,358	8,947	8,548	-25,503	24,905	1,440	2,017	
February	41,512	41,459	8,538	8,681	25,586	24,841	2,194	2,197	5,426
March	41,046	41,866	7,966	8,658	25,783	25,277	2,818	2,247	
April	41,029	42,494	8,253	8,827	25,606	25,657	2,690	2,360	
May	39,742	42,970	7,795	8,914	25,125	25,929	2,401	2,326	5,272
June	42,152	43,612	8,037	8,780	26,508	26,482	2,614	2,280	
July	43,366	43,251	8,939	8,717	26,537	27,162	1,239	2,169	
August	42,525	41,406	8,569	8,025	26,346	26,802	1,919	2,194	3,818
September	43,351	42,047	8,615	8,160	26,832	27,185	2,153	2,313	***
October	47,890	45,813	10,624	9,484	27,632	27,827	2,840	2,557	
November	48,988	47,517	10,700	10,184	28,934	28,733	3,141	2,675	6,56
December	50,354	50,103	10,374	10,353	29,348	29,202	4,050	2,670	
1977									100
January	51,694	50,780	11,150	10,660	29,966	29,465	1,949	2,680	
February	52,015	52,016	11,122	11,326	30,485	29,946	1,887	2,806	4,49
March	51,326	52,373	10,563	11,494	30,550	30,128	2,214	2,832	
April	52,309	54,206	10,978	11,729	31,330	31,551	3,597	2,520	
May	51,512	55,749	10,574	12,098	31,390	32,562	3,293	2,513	p6,42
June	51,549	53,308	10,320	11,254	31,449	31,449	2,182	2,536	
July	50,898	50,695	10,676	10,395	30,853	31,259	1,932	2,439	
August	50,133	48,815	9,792	9,169	30,791	31,292	1,998	r2,550	(NA
September	50,245	48,734	9,474	8,972	32,473	32,603	1,630	p2,623	
October	55,512	53,122	11,412	10,198	33,723	33,455	r4,268		
November	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	p3,730		
December									- 1

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 7 and 8.)



		weekly overtime ho efense products inc		654. Acc	ession rate, defens industries, BLS	e products	655, La	yoff rate, defense p industries, BLS	products
Year and month	Not seasonally adjusted	Seasonally adjusted *	Moving average of seasonally adjusted data— 4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving averag of seasonally adjusted data- 4-month*
	(Hours)	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)
1975									
January	2.4	2.5	2.6	1.4	1.6	1.6	1.2	1.1	1.0
February	2.4	2.5	2.5	1.3	1.6	1.6	1.3	1.2	1.2
March	2.3	2.5	2.5	1.3	1.6	1.7	2.1	1.9	1.4
April	2.1	2.4	2.4	1.9	2.1	1.6	1.4	1.3	1.4
May	2.0	2.3	2.4	1.3	1.3	1.5	1.3	1.3	1.5
June	2.5	2.4	2.4	1.7	1.0	1.4	1.3	1.4	1.2
July	2.2	2.5	2.4	1.6	1.3	1.2	0.8	1.0	1.2
August	2.6	2.6	2.5	1.6	1.2	1.2	1.2	1.3	1.2
September		2.5	2.6	1.7	1.3	1.2	1.0	1.2	1.2
Outstan					1				
October		2.6	2.6	1.4	1.2	1.2	1.0	1.1	1.1
November		2.5	2.5	1.0	1.3	1.4	0.8	0.7	0.9
1976	2.9	2.5	2.6	0.8	1.6	1.4	0.6	0.6	8.0
January		2.6	2.5	1.3	1.4	1.5	1.1	1.0	0.8
February	2.5	2.6	2.6	1.3	1.6	1.6	0.8	0.7	0.8
March	2.4	2.5	2.4	1.5	1.7	1.5	0.8	0.7	0.7
April	1.7	2.0	2.4	1.2	1.4	1.6	0.6	0.5	0.6
May	2.3	2.6	2.4	1.6	1.6	1.6	0.6	0.6	0.6
June	2.5	2.5	2.4	2.1	1.5	1.4	0.6	0.7	0.6
July	2.4	2.7	2.6	1.6	1.3	1.5	0.7	0.8	0.7
August	2.7	2.7	2.6	2.0	1.6		0.6	0.7	0.8
September	2.6	2.3	2.6	1.9	1.5		0.6	0.8	0.8
Ontoba	2.8	2.7	1 2 -	1 , .		1 , .		1	
Octobe: November			2.6	1.8	1.6		0.8	0.8	0.7
December			2.7	0.9	1.7	1.9	0.3	0.5	0.6
1977	3.2	2.0	2.7	0.9	1.7	1.9	0.3	0.4	0.0
January			2.8	2.2	2.4		0.6	0.5	0.4
February			2.8	1.8	2.1	2.1	0.5	0.4	0.5
March	2.5	2.7	2.8	2.1	2.3	2.2	0.9	0.7	0.5
April		3.0	2.9	2.0	2.2	2.2	0.4	0.3	0.5
May		3.1	3.0	2.3	2.3		0.5	0.5	
June	3.0		3.0	2.8	2.2		0.3	0.3	
July	2.8	3.0	2.9	2.0	1.7	2.0	0.6	0.7	0.5
August	2.7		r3.0	2.4	2.0		0.4	0.5	
September			p3.0	2.2	1.8		0.5	0.6	
Octobor									
October November December	(NA)		(NA)	(NA)	(NA)		(NA)	(NA)	

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 8.)



	657. Output of defense and space	659. Manufacturers' inventories, defense	661. Manufacturers' unfilled orders,	664. Manufacturers' unfilled orders	666. Defense Department progress		ment in defense stries, total, BLS
Year and month	equipment, FRB, seasonally adjusted*	products, Census, seasonally adjusted*	defense products, Census, seasonally adjusted*	from the U.S. Gov- ernment, aerospace industries, Census, seasonally adjusted*	payments out- standing, DOD, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
1975							
January	82.1	5,487	27,221			1,178	1,175
February	79.9	5,565	27,815			1,141	1,141
March	79.7	5,639	27,823	20,907	9,609	1,137	1,142
marui					.,		
April	80.2	5,750	28,238			1,121	1,128
May	80.9	5,890	28,604			1,131	1,140
June	81.6	6,051	28,459	21,230	10,464	1,123	1,127
			1				
July	81.0	6,207	28,920			1,110	1,117
August	80.6	6,252	29,007			1,100	1,108
September	81.2	6,399	29,706	20,906	11,008	1,104	1,100
					9		
October	78.5	6,456	29,237			1,097	1,090
November	77.3	6,549	29,264	01 226	11 22	1,089	1,077
1976	77.7	6,568	29,210	21,776	11,257	1,088	1,075
January	80.5	6,488	28,449			1,084	1,081
February	80.1	6,523	28,438		1	1,075	1,076
March	79.5	6,634	29,069	22,598	9,848	1,071	1,077
	10.55						
April	78.4	6,720	29,550			1,066	1,072
May	78.1	6,824	29,727			1,061	1,070
June	77.5	6,774	30,294	22,883	12,041	1,060	1,064
July	77.5	6,846	29,422			1,043	1,050
August	78.5	6,804	29,153			1,053	1,060
September	77.6	6,798	29,188	22,020	11,881	1,062	1,059
	1	0,,,,	25,200	22,020	12,002	1,000	1 .,
October	78.0	6,847	29,800			1,062	1,056
November	77.6	6,847	30,698			1,066	1,054
December	77.2	6,577	32,231	21,666	8,465	1,070	1,060
1977					1		
January	78.0	6,609	31,536			1,067	1,062
February	78.5	6,625	30,809	•••		1,067	1,069
March	78.5	6,517	30,411	22,962	8,521	1,061	1,067
Andl							
April	79.9	6,602	31,512	• • • •	• • • •	1,071	1,077
June	80.0	6,637	32,226	-04 500	0 725	1,071	1,079
June	80.3	6,874	31,857	p24,308	8,735	1,083	1,086
July	80.4	6,936	31,212	1		1,084	1,092
August	80.8	6,926	30,707	• • • •	***	1,077	1,08
September	r80.9	6,854	29,768	(NA)	7,838	1,089	1,08
				1	.,		
October		6,596	r31,494			pl,051	pl,045
November	p79.0	(NA)	p32,627			(NA)	(NA)
December							

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 9 and 10.)



		efense products industries, n workers, BLS		ate weekly hours, defense industries, BLS	675. Index of aggregate v workers, defense pr	weekly payrolls, product oducts industries, BLS
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
1975	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)
	618	615				
lanuary	589	615	69.2 67.0	69.2	102.8	102.6
February	585	588	66.8	67.0	98.6 99.1	98.4
March	303	300	00.0	67.0	99.1	99.4
April	570	574	66.1	66.8	97.6	99.5
May	581	588	66.5	66.8	100.2	101.3
lune	573	577	66.4	66.6	101.2	102.3
h.l.	564	570	65.0	66.1	97.9	101.7
July	555	563	64.9	65.6	98.3	101.7
September	558	556	65.5	65.1	102.0	101.2
		1	-			
October		549	64.9	64.5	101.5	100.4
November	549 549	540	64.6	63.5	101.8	98.7
1976	549	538	65.0	63.8	104.9	99.8
January	545	542	64.1	64.1	101.3	101.1
February	540	540.	63.5	63.5	100.7	100.4
March	537	539	63.3	63.6	100.8	101.1
April	533	537	62.0	62.7	96.1	99.3
May	530	536	62.6	63.0	99.2	100.0
June		533	62.6	62.8	99.4	100.2
laha	510	516		62.2	000	
July	520	516 528	61.2	62.2	96.0	99.8
September	529	528	62.4	62.0	101.9	101.1
						1
October	529	525	62.4	62.0	104.0	102.6
November	532 533	523 524	63.5	62.5	106.5	103.4
1977	333	324	04.1	62.7	109.2	103.0
January	533	529	63.0	62.8	106.4	105.5
February	531	531	63.6	63.7	108.5	108.
March	525	528	63.3	63.6	107.4	107.
April	533	538	63.5	64.5	109.2	113.
May	534	539	63.8	64.1	110.3	111.3
June	541	543	64.6	64.6	112.7	113.
July	539	546	64.0	65.1	110.9	115.:
August		545	64.0	64.7	111.5	114.
September		r545	r65.0	r64.6	r117.3	r116.
October						100
October November	Louis.	p518	p62.6	p62.3	pl11.2	p109.
December	(NA)	(NA)	(NA)	(NA)	(NA)	(NA

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 10.)



	Defense Departm	ent personnel, DOD	7/15/1	Defen	se Department net outla	ys, DOD	
Von	677. Military, active duty, not seasonally	678. Civilian, direct hire employment,	680. To	otal, military functions a assistance	and military	681. 0	perations
Year and month	adjusted*	not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975							
January	2,145	1,038	7,051	6,766	7,312	4,775	4,648
February	2,146	1,036	7,258	7,590	7,284	4,727	4,924
March	2,137	1,034	7,244	7,190	7,258	4,736	4,831
Ancil	2,127	1,034	7,190	6,958	7,056	4,960	4,856
April	2,124	1,035	7,780	7,494	7,308	4,909	4,941
May	2,128	1,042	7,476	6,336	7,475	4,954	4,74
June	2,120	1,042	1,410	0,330	1,415	4,954	4,/4
July	2,129	1,052	7,124	8,278	7,423	4,918	4,97
August	2,111	1,038	7,961	8,594	7,552	5,081	5,029
September	2,105	1,030	6,631	6,880	7,566	4,810	5,010
October	2,097	1,031	7,913	7,732	7,788	5,260	5,13
November	2,099	1,029	7,203	7,574	7,515	4,997	4,98
December	2,084	1,029	7,695	7,672	7,251	5,078	
1976	2,004	1,020	1,093	1,072	.7,251	3,076	5,06
January	2,092	1,023	6,649	6,636	7,326	4,887	4,940
February	2,093	1,019	6,962	7,011	7,322	4,848	4,879
March	2,090	1,016	7,642	7,334	7,259	5,026	4,99
April	2,087	1,011	7,872	7,703	7,068	5,297	5,16
May	2,081	1,010	7,042	7,200	7,406	4,889	5,02
June	2,082	1,010	7,843	6,525	7,486	5,170	4,92
habe	2,087	1,014	7 422	0.663	7.563	F 050	12
July	2,085	1,006	7,433 7,163	8,663 7,493	7,563	5,050	5,13
September	2,084	997	7,513	7,794	7,562	5,457	5,05
ooptomoor		1	1,515	1,1,24	7,502	3,437	3,34
October	2,086	995	7,478	7,600	7,657	4,984	5,01
November	2,082	996	7,301	7,294	7,477	5,277	5,22
December	2,072	995	7,422	7,096	7,614	5,356	5,19
January	2,077	994	6,979	7,586	7,649	5,262	5,43
February		995	8,004	8,312	7,697	5,202	5,43
March		995	8,454	8,006	7,911	5,529	5,50
April	2,071	995	7 050	7 000	7 000	F 407	
May		997	7,850 8,412	7,889	7,896	5,487	5,44
June		1,009	8,412	8,575 7,005	8,125 8,135	5,269	5,34
Lit.							
July		1,008	r7,880	r8,965	8,290	5,389	5,44
August		998 982	8,244 8,795	8,370 8,938	r8,324 p8,324	5,505	5,40
					Potoni		
October		983	7,922	8,092		r5,583	r5,75
November	p2,069	(NA)	p8,829	p8,572		p5,581	p5,40
December			1			,	

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 10 and 11.)



	Defense De	partment net outlays, D	OD-Continued		ays for the national ction, Treasury		eartment personnel ation, DOD
Year		682. Procurement		Seasonally adjusted*	Moving average of seasonally adjusted	Not seasonally adjusted	Sessonally adjusted*
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*		data-6-month*	e-	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975			*				
January	1,427	1,428	1,460	7,039	7,554	2,913	2,768
February	1,351	1,444	1,429	7,896	7,526	2,808	2,869
March	1,500	1,440	1,414	7,385	7,536	2,812	2,850
April	1,220	1,194	1,354	7,297	7,342	2,867	2,870
May	1,467	1,406	1,328	7,788	7,564	2,870	2,877
June	1,409	1,215	1,360	6,649	7,747	2,823	2,887
July	1,225	1,268	1,322	8,367	7,706	2,941	2,895
August	1,559	1,634	1,361	8,996	7,818	2,873	2,910
September	1,191	1,217	1,330	7,140	7,836	2,936	2,961
October	1,500	1,425	1,365	7,971	8,079	3,008	2,954
November	1,081	1,220	1,384	7,896	7,830	2,866	2,893
December	1,319	1,427	1,328	8,103	7,352	2,916	2,904
January	1,363	1,384	1,305	6,874	7,411	3,018	2,907
February	1,227	1,293	1,382	6,126	7,380	2,820	2,804
March	1,195	1,082	1,361	7,497	7,286	2,887	2,866
April	1,792	1,884	1,330	7,784	7,068	2,845	2,861
May	1,092	1,095	1,321	7,334	7,376	2,851	2,889
June	1,418	1,244	1,281	6,795	7,589	3,007	3,036
July		1,326	1,338	8,717	7,656	2,963	2,960
August		1,055	1,241	7,409	7,649	2,962	2,963
September	1,356	1,423	1,328	7,896	7,653	2,978	2,99
October		1,303	1,418	7,743	7,776	3,026	3,03
November	1,502	1,617	1,462	7,360	7,610	3,020	2,97
December	1,745	1,781	1,561	7,530	7,764	3,097	3,08
1977			1				
January		1,594	1,554	7,723	7,802	3,034	2,95
February		1,646	1,596	8,331	7,845	2,886	2,95
March	1,511	1,381	1,552	8,125	8,060	3,137	3,11
April		1,555	1,496	8,000	7,996	3,008	3,06
May		1,358	1,526	8,650	8,289	3,084	3,08
June	1,643	1,442	1,509	7,146	8,296	3,112	3,14
July		1,772	1,511	9,483	8,455	3,054	3,08
August		1,547	1,502	8,370	8,504	3,146	3,10
September	1,372	1,391	p1,611	9,079	8,513	r3,108	r3,13
October		1,500	1000	8,294		p3,212	p3,22
November		p2,014		8,704		(NA)	(NA
December							

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 11.)



		s' shipments, defense ts, Census	689. Manufacturers' shipments to the		cturers' unfilled orders nse products, Census		cturers' inventories to e products, Census
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data-5-month*	U.S. Government, aerospace industries, Census, seasonally adjusted*	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*
<i>y</i> .	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)
1975		10					7
January February March	1,923 1,982 1,989	1,902 1,950 1,965	4,105	14.2 14.0 14.0	14.6 14.3 14.2	2.9 2.8 2.8	2.9 2.9 2.9
April	2,030 1,901 1,943	1,969 1,954 1,965	4,104	13.9 15.0 14.6	14.3 14.5 14.6	2.8 3.1 3.1	2.9 3.0 3.1
July	1,906 2,043 1,864	1,931 1,967 1,993	4,847	15.2 14.2 15.9	15.0 14.8 14.7	3.3 3.1 3.4	3.2 3.2 3.2
October November	2,079 2,073 1,991	2,010 2,042 2,110	4,283	14.1 14.1 14.7	14.6 14.3 13.7	3.1 3.2 3.3	3.2 3.2 3.1
1976 January February March	2,201 2,206 2,187	2,132 2,159 2,206	4,564	12.9 12.9 13.3	13.6 13.4 13.2	2.9 3.0 3.0	3.1 3.0 3.0
April	2,210 2,224 2,047	2,175 2,156 2,156	5,056	13.4 13.4 14.8	13.6 13.8 13.8	3.0 3.1 3.3	3.1 3.1 3.1
July	2,111 2,188 2,117	2,137 2,138 2,178	4,528	13.9 13.3 13.8	13.8 13.8 13.6	3.2 3.1 3.2	3.2
October		2,258 2,350 2,450	4,970	13.4 13.7 12.8	13.4 13.1 12.7	3.1 3.1 2.6	3.0 2.9 2.8
January February March	2,647 2,615 2,611	2,526 2,577 2,589	5,277	11.9 11.8 11.6	12.4 12.1 12.1	2.5 2.5 2.5	2.5
April	2,496 2,578 2,551	2,: J 2,563 2,541	p5,054	12.6 12.5 12.5	12.2 12.3 12.4	2.6 2.6 2.7	2.0
July	2,501	2,555 r2,548 p2,558	(NA)	12.1 12.3 11.6	12.2 r12.2 pl2.2	2.7 2.8 2.7	2. 2. (NA
October	p2,598		TOTAL .	r12.4 p12.6	5-141	2.6 (NA)	

NA=not available; p=prefiminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 12.)

### **Defense-Related Balance of Payments Components**

		r U.S. military agency (exports), BEA <sup>1</sup>	547. Direct defense expenditures (imports),	696. U.S. Government with military st	nt cash receipts associated ales contracts, BEA <sup>2</sup>
Year and quarter	Not seasonally adjusted	Seasonally adjusted*	BEA, not seasonally adjusted*	Not seasonally * adjusted	Seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973	*				
First quarter	332 504 489 1,017	347 455 531 1,009	1,169 1,231 1,067 1,162	520 544 610 616	566 552 617 555
1974		3.10	Ind:		
First quarterSecond quarter Third quarter Fourth quarter	644 738 720 850	638 683 781 850	1,153 1,298 1,265 1,319	497 642 995 808	546 650 990 756
1975			1.07		
First quarter	946 888 902 1,183	924 874 957 1,164	1,317 1,185 1,096 1,198	1,050 1,013 1,148 1,376	(NA)
1976					
First quarter Second quarter Third quarter Fourth quarter	1,132 1,193 1,403 1,486	1,095 1,189 1,472 1,457	1,160 1,228 1,237 1,222	2,246 1,858 2,041 2,068	
1977					
First quarter	r1,702 p1,918	1,845 r1,714 p2,008	1,329 1,403 p1,431	1,99'2 r1,883 p1,955	

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates suries shown in charts. (See page 13.)

Includes deliveries for which Israel has been released from its contractual liability to pay.

\*\*Excludes funds made available to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Law 93-199 and subsequent legislation amounted to (in millions); 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91; 1975, IQ, \$187; IIQ, \$124; IIIQ, \$83; IVQ, \$242; 1976, IQ, \$16; IIQ, \$100; IIIQ, \$743; IVQ, \$5; 1977, IQ, \$138; IIQ, \$245; IIIQ, \$117.

#### Appendix A. SEASONAL ADJUSTMENT FACTORS

Series title						197	7					
MONTHLY SERIES	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Defense Department gross obligations incurred:	-93	0.00	16/5		11.10	7-98	wo to					
617. Total <sup>1</sup>	99.9	88.2 88.4	94.7 93.4	94.6	78.0 89.3	135.2 117.8	112.5	108.5	99.8	105.3	92.4	90.0
619. Operations <sup>1</sup>	116.1	99.4	105.0	81.2	63.1	161.4	84.7	82.6	100.7	106.8	111.2	87.3
23. Gross obligations incurred outside the Federal Government	110.1	33.4	103.0	01.2	05.1	101.4	04.7	02.0	100.7	100.0	111.2	07
for national defense <sup>1</sup>	101.3	84.9	99.6	94.1	82.8	126.3	117.7	110.0	96.5	95.2	103.3	90.4
25. Defense Department military prime contract awards for work performed in the United States	96.6	82.4	89.3	73.3	70.6	177.9	115.5	107.1	101.4	111.0	86.7	87.
Defense Department gross unpaid obligations outstanding: <sup>2</sup>												
643. Total	101.8	100.0	98.0	96.5	92.4	96.7	100.4	102.7	103.1	104.5	103.1	100.
644. Operations	104.6	98.2	91.9	93.6	87.4	91.7	102.7	106.8	105.6	111.9	104.9	100.
645. Procurement	101.7	101.8	101.4	99.3 82.5	96.4	100.0	98.7	98.4	99.6	100.8	101.3	100.
348. Menufacturers' new orders, defense products <sup>3</sup>	108.0	93.7	97.3	82.5	65.3	117.1	186.8	94.1	102.5	106.9	83.8	101.
products industries <sup>4</sup>	1	1	2	4	2	.0	2	.1	.2	.2	.3	
554. Accession rate, defense products industries <sup>4</sup>	2	3	2	2	.0	.6	.3	.4	.4	.2	4	
555. Layoff rate, defense products industries <sup>4</sup>	.1	.1	.2	.1	.0	.0	1	1	1	.0	.0	
357. Output of defense and space equipment <sup>3</sup>	100.3	100.3	100.4	99.1	99.6	100.3	98.5	98.2	99.6	100.0		102.
359. Manufacturers' inventories, defense products <sup>3</sup>	98.5	100.1	101.1	100.7	99.8	100.4	100.1	100.3	100.3	100.3		100.
	101.2	100.9	100.6	99.1	96.2	97.4	101.4	101.2	100.9	101.5	100.0	99.
Employment in defense products industries: 670. Total	100.5	99.8	99.5	99.4	99.3	99.7	99.2	99.3	100.4	100.6	101.0	100.
671. Production workers	100.8	99.9	99.5	99.2	99.0	99.6	98.7	98.5	100.4	100.9	101.6	
573. Index of aggregate weekly hours, defense products	1100			2.37								
industries	100.3	99.9	99.6	98.5	99.6	99.9	98.3	99.0	100.6	100.6	101.5	102.
defense products industries	100.9	100.1	99.7	96.6	99.2	99.3	96.2	97.4	100.7	101.4	103.0	105.
Defense Department net outlays:												
680. Total, military functions and military assistance <sup>1</sup>	92.0	96.3	105.6	99.5	98.1	118.0	87.9	98.5	98.4	97.9		
681. Operations <sup>1</sup>	96.8	95.8	100.5	100.8	98.5		98.9	101.9	99.0	97.0		
682. Procurement	95.6	95.4 97.6	109.4	100.2	97.5 98.9		88.7	98.3	98.6	100.8		
683. Budget outlays for the national defense function <sup>1</sup>	102.8	97.8	100.6	98.2	99.9		84.4	100.5	98.9	97.5 99.7		
688. Manufacturers' shipments, defense products <sup>3</sup>	87.6	97.6	100.4	98.5	100.5		94.8	97.4	106.1	101.4		
QUARTERLY SERIES		10			110			1110			IVQ	
200. Gross national product <sup>3</sup>		95.9			99.9			98.9			105.1	
264. Fed. Govt. purchases of goods and services, national defense <sup>3</sup> 546. Transfers under U.S. military agency sales contracts—exports <sup>5</sup>		98.3			102.8			97.7 -69			101.4	
Defense Department military prime contract awards:		31						33				
626. Aircraft		109.0			90.1			106.3			95.0	
627. Missile and space systems		68.9			80.7			146.2			105.3	
629. Weapons and ammunition	1	93.2			167.3			50.5			88.8	
630. Electronic and communications equipment		90.9			121.2			93.8			94.8	
631. Combat vehicles		52.8 90.7			164.5			108.3			73.6 88.3	
633. Soft goods		93.4			146.1 72.2			75.1			87.4	
634. Construction.		67.5			197.2			67.9			67.5	
635. Services		69.2			103.6			130.0			97.8	
636. Under \$10,000		96.7			122.8			84.0			96.6	
637. Educational and nonprofit institutions	1	77.6		16	76.0			149.3			98.2 89.1	
Aerospace industries:					22.0						0511	
650. Manufacturers' new orders from the U.S. Government		90.5		1	82.7			122.8			104.4	
664. Manufacturers' unfilled orders from the U.S. Government.	1	101.3			96.2			100.3			102.1	
689. Manufacturers' shipments to the U.S. Government	1	93.8			102.6			101.0		1	102.6	

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, The X-11 Variant of the Census Method II Seasonal Adjustment Program.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures—imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department personnel (series 677 and 678) contain no measurable seasonal variation.

<sup>1</sup> Factors are products of seasonal and trading-day factors.

<sup>2</sup> Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

of months but these gaps were filled with averages of preceding and following months for

purposes of estimating seasonal variation.

These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1976 and are derived by dividing the seasonally

unadjusted data by the seasonally adjusted data.

\*These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

<sup>5</sup>This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1976 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

#### Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

	Series title	Period	ō	CI	T	ī	T/C	MCD	Average d of run (	
		covered		-					CI	MCD
Defer	nse Department gross obligations incurred:									
	617. Total	Jan. '57-Jan. '76	18.28	6.98	6.89	0.72	9.53	6	1.53	2.30
	619. Operations	July '59-Jan. '76	8.98	2.77	2.66	. 65	4.09	4	1.69	3.0
	621. Procurement	Jan. '57-Jan. '76	44.28	22.39	22.27	1.54	14.44	6	1.46	2.0
623.	Gross obligations incurred outside the Federal Government for national									
	defense	July '63-Sept. '75	14.17	7.92	7.82	.73	10.72	6	1.52	2.6
625.	Defense Department military prime contract awards for work performed									
	in the United States, total	Jan. '57-Jan. '76	32.78	15.55	15.41	1.35	11.42	6	1.42	2.0
Deter	nse Department gross unpaid obligations outstanding:		0 10		or		2 00	2	0.00	
	643. Total	Jan. '57-Jan. '76	2.13	1.32	. 95	.88	1.08	3	2.65	3.9
	844. Operations	Jan. '67-Jan. '76	5.59	2.68	2.37	1.13	1.14	2	2.08	5.0
Manuel	facturers' new orders:	Jan. '67-Jan. '76	2.19	1.52	1.07	. 34	1.14	2	2.00	4.
Manu	647. Defense products industries	Jan. '57-Mar. '72	(NA)	15.11	14.89	. 97	15.32	6	1.58	2.3
	648. Defense products	Feb. '68-Jan. '76	(NA)	21.50	21.43	1.47	14.59	6	1.56	1.
663	Average weekly overtime hours, production workers, defense products	rep. 00-vall. 70	(MA)	21.30	21.43	1.4/	14.33		1.30	
093.	industries (hours).	Jan. '58-Jan. '76	.22	.11	.11	. 03	3.14	4	2.50	3.
REA	Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76	.38	.16	.15	.05	3.12	4	2.16	4.
	Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76	.17	.14	.13	.04	3.14	4	1.93	4.
	Output of defense and space equipment.	Jan. '57-Jan. '76	(NA)	.96	.50	.75	.67	1	3,40	3.
	facturers' inventories:	San. Or San. 75	()	.,,		.,,		-	31.40	
	658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	. 85	.62	1	2,80	2.
	659. Defense products.	Jan. '68-Jan. '76	(NA)	1.75	1.13	1.29	.88	1	3.10	3.
Manu	facturers' unfilled orders:		1					-		
	660. Defense products industries	Jan. '57-Mar. '72	(NA)	1.23	.90	. 83	1.09	2	2.76	3.
	661. Defense products	Jan. '68-Jan. '76	(NA)	1.51	1.18	. 93	1.27	2	2.04	4.
Empl	loyment in defense products industries:									
	670. Total	Jan. '58-Jan. '76	.76	.70	.29	.59	.50	1	4.91	4.
	671. Production workers	Jan. '58-Jan. '76	1.08	. 93	.51	.70	.73	1	3.72	3.
	Index of aggregate weekly hours, defense products industries	Jan. '58-Jan. '76	. 95	.76	.39	.60	.65	1	4.00	4.
675.	Index of aggregate weekly payrolls, production workers, defense products									
	industries	Jan. '58-Jan. '76	1.72	1.14	.75	.78	. 96	1	2.92	2.
Defe	nse Department personnel:						1 1			
	677. Military, active duty @	Jan. '57-Jan. '76	.62		. 27	.55	.48	1		3.
	678. Civilian, direct hire employment @	Jan. '57-Jan. '76	.55	(NA)	.34	.42	.81	1	4.30	4.
Dete	nse Department net outlays:									1 -
	680. Total, military functions and military assistance		8.89		4.19	.77	5.42	6		3.
	681. Operations	July '59 Jan. '76	7.07	3.62		.73	4.69	5		2.
002	682. Procurement	Jan. '57-Jan. '76 Jan. '57-Jan. '76	15.10			1.59		6		2.
	Defense Department personnel compensation	Jan. '67-Jan. '76	8.87	1.33	4.18	.73	5.73	6		2.
			2.70	1.33	1.13	.49	2.32	9	2.31	4.
man	687. Defense products industries	Jan. '57-Mar. '72	(NA)	2.67	2.49	. 87	2,85	3	1.64	3.
	688. Defense products	Jan. '68-Jan. '76	(NA)	4.40		.98		5		2.
Ratio	p. manufacturers' unfilled orders to shipments:	Jan. 00-Jan. 70	(NA)	4.40	4.34	. 90	4.41	1 3	1.37	1 2.
-1050	690. Defense products industries	Jan. '57-Mar. '72	(NA)	2.95	2.71	. 96	2.82	4	1.90	3.
	691. Defense products.	Jan. '68-Jan. '76	(NA)			1.01	4.77	5		
Rati	manufacturare' inventories to shipments	The state of the s	(MA)	4.93	4.01	1.01	4.//	1	1.09	1 4.
*****	692. Defense products industries	Jan. '57-Mar. '72	(NA)	2.84	2.90	.72	4.01	9	2.46	5.
	693. Defense products					1.13		1 3		

NA = not available.

#### **BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1**

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*. October 1957).

 $^{\prime\prime}\overline{O}^{\prime\prime}$  is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

"CI" is the same for the seasonally adjusted series.

 $^{\prime\prime}\overline{C}^{\prime\prime}$  is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

"I" is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

"\(\bar{l}\)C" measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

## Appendix B. AVERAGE CHANGES AND RELATED MEASURES Appendix B. AVERAGE Changes And Related Appendix B. AVERAGE Changes And Related Appendix B. AVERAGE Changes And Related Measures APPENDIX B. AVERA

"Average Duration of Run" (ADR) is another measure of smoothness and TOO Measures for series identified with an asterisk (\*) are computed by an additive method. This method is used for series with zero or negative data, is equal to the average number of consecutive monthly changes in the same direction lineary/series of observations. When there is no change between two observations, is change in the same direction as the preceding change is assumed. The ADR is shown for the sessonally adjusted series (CI) and the MCDD burke, which is a moving average (with the number of terms equal to series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based, on actual month-to-month changes bersyo (rather than percent changes) and (2) the irregular component is obtained by MCD) of the seasonally adjusted series. A comparison of these measures with subtracting the short-term trend from the seasonally adjusted series. The the expected ADR of a random series indicates whether the changes approxiaverage changes shown above for the components of such a series are in the the expected ADR of a random series indicates whether the changes ADR is those of a random series. In arrandom series, the expected ADR is the same in the actual values fall between 1.36 and 1.75 about 95 percent of at new value. same unit of measure as the series itself. The unit is andicated in the series 817. Total..... 619. Operations..... 621. Procurement. . 623. Gross obligations incurred outside the Federal Government for national 2.61 10,72 73 7 82 7.92 July '63-Sept. '75 . . Defense Department military prime contract awards for work performed 2.05 1.42 11.42 1.35 15.41 15.55 32.78 Jan. '57-Jan. '76 . . Series 3.98 Part 2 Quarterly 2.65 RR 95 20 643, Total. an. '87-Jan. '76 ... 104 Period of run (ADR) 1.58 ō CI c T/C orn SE Series title PR. AF 15.11 (NA) lan. 'S berevoo' 28117211 08 1 1.56 14.59 0 don 647 1.47 21.43 21.50 (AM) Feb. '68-Jan. '76 . Cin 270ubor 10 '57-IVQ '75 . 1.95 0.35 48.28 0.20 Openets 044 044 044 200. Gross national product 115}. 8.33 8.33 ...35. (NA) 10 57-1V0 76 perense. 341 19 nA Federal Government purchases of goods and services, national defense (NA) te131026 3.26 ig ense pri ,91617b Transfers under U.S. maitary agency sales contracts-exports (mil. dol.) . 79.21 2.30 bns 9228 uO 2582 10 '60-IVQ '75 42.32 (NA) 36.13 24.65 10 '57-IVO /75 . net teries: National defense purchases as a percent of GNP (percent) .... (Ass). .16 . 07 .15 BALL 5. 54.0 3618 tac (NA) 2911tes Manufacturers' new orders from the U.S. Government, serospace (AN) products Defens lan. Roducts. industries . Manufacturers unfilled orders from the U.S. Government (aerospace (A)) IQ '61-IVQ '75 . . . 17,96 Pheiruse 28 1.73 24.44 14.82 5.85 2:53 פם סולפרי graducts Defense Department progress payments outstanding (Man). 10 '61-IVO 75 . nal restries 2.44 en 29 27 4.55 3:91 2.68 8 2.27 graducts. IQ '57-IVQ '75 4.80 (NA) 2.06 8 genseuse 4.35 borq saretsbri 820 1.62 Manufacturers shipments to the U.S. Government, aeromace industries . 10 '61-IVQ '75 . nal 7.04 4.27 3.43 2.11 Volan76 U.S. Government cash receipts associated with military sales contracts ani a morke (million dollars).... 30..... 00..... 98.... 37.... 29... IQ '60-IVQ '75 . ... 107.60 83.62 2.82 875. Index of aggregate weekly payrolls, production workers, defense products .781 95. SA = Son available 30. .75 Jan. '58-Jan. '76 . . . \*Measures for these series are based on actual changes rather than percent changes (see definition below) and justed data. (AN) 23. 37 nst-73 nst (AN) 23. 37 nst (AN) 23 Jan. '57 Jan. '78 . . . Defense Department net outlays: 1.70 4.19 Jan. '57 Jan. '76 . . . TF A 8.89 1.58 5 2.34 4.69 681 Operations 2 TRAP NI NWOHS REASURES SHOWN IN PART 2 00 3 7,32 1.59 1.58 883. Budget outlays for the national defense function. | Jan. '57 Jan. '78 | 8.87 | 4.27 | 4.18 | 4.27 | 4.18 | 4.27 | 4.18 | 4.27 | 4.18 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4. .73 647 These measures are defined the same as those in part 1 except that they are based on quarter to-quarter percent change (without regard to sign) in the short-term based on quarter to-quarter percent changes. For example, CI is the average and to sign in the seasonally and some seasonally are shown as "4". The "Average Duration of Rum" (ADR) measures are defined the same as those in part 1 except that they are based in quarter to quarter percent change (without regard to sign) in the seasonally and some seasonally are shown as "4". The "Average Duration of Rum" (ADR) measures are seasonally and some seasonally are shown as "4". The "Average Duration of Rum" (ADR) measures are seasonally as a support of the same as those in part 1 except that they are based in quarter to quarter for the same as those in part 1 except that they are based in quarter to quarter for the same as those in part 1 except that they are based in quarter for the same as those in part 1 except that they are based in quarter for the same as those in part 1 except that they are based in quarter for the same as those in part 1 except that they are based in quarter for the same as the sa on the average percent change (without regard to sign) in the short-term also expressed in quarters. Ratio, manufacturers' unfilled orders to shipments: ion. '57-Mar '72 (NA)

In deriving "OCD" (quarters for cyclical dominance), average percent all 88 ... as in part 1, measures for series identified with an asteriek (\*Pere component and the short term trend, QCD is the shortest span of guarters for ... as well as the same as that used for the component and the short term trend, QCD is the shortest span of guarters for ... as well as monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data rather than monthly series except for the use of quarterity data.

5.29 5.18 1.13 Jan. '68-Jan. '78 . . . (NA)

\*Measures for these series are based on actual changes rather than percent changes (see definition below).

measures are based on unadjusted data.

893. Defense products..... .oldefteve ton = Am

#### BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X 11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in Electronic Computers and Business Indicators by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from Journal of Business October 1957)

"O" is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to Lanoitinitab exect

"CI" is the same for the seasonally adjusted series.

"C" is the same for the short-term trend, which is a smooth, fiexible moving average of the seasonally adjusted series.

"I" is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

"T/C" measures the relative smoothness (small values) or irrequisitly (large velues) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the everage monthly percent change (without regard to sign) in the short term

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component All MCD's greater than "5" are shown as "6".

#### Appendix C. HISTORICAL DATA

This appendix provides historical data (back to 1945 if available) for selected <u>Defense Indicators</u> series. Data are shown for series which (a) have recently been added to the report, (b) have recently been revised, or (c) have not been shown here for a long time. By keeping these tables, the user can acquire a complete set of historical data. Each time a series is included in this appendix, it is footnoted to indicate the extent of any revisions since it was last shown. See the "Alphabetical Index—Series Finding Guide" for the latest issue in which historical data

were published for each series. Current figures are shown in the basic data tables each month and may be used to update these historical tables.

Official source agency annual figures are shown if available. Such figures may differ slightly from those computed from the monthly or quarterly data appearing in the tables. When both seasonally adjusted and unadjusted data are shown for a series, annual figures are included only for the unadjusted data. Quarterly and annual data are not included for moving averages.

		114				Mon	thly							Quart	terly	-	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	11 0	III Q	IVΩ	Annual
	643. DEFE	NSE DEPA	RTMENT GI	ROSS UNPA	ID OBLIG	ATIONS OF	JTSTANDIN RS)	G, TOTAL	, NOT SE	ASONALLY	ADJUSTED		11 117	EI	ND OF PER	COD	
1953 1954 1955 1956 1957 1958 1959	38,361 32,222 23,644 26,135 21,853 23,450 21,358	37,777 30,605 23,140 25,916 21,408 23,097 20,909	36,226 30,180 24,624 26,155 22,302 23,540 21,033	35,291 29,729 24,732 25,909 22,654 23,273 20,726	34,421 28,093 24,157 24,832 22,747 22,875 20,260	51,271 33,768 27,188 25,822 25,232 25,135 24,343 23,116	50,652 34,133 26,180	49,497 33,387 24,196  24,269 23,257 23,643	47,609 33,643 24,126 26,754 24,026 23,054 23,769	45,398 33,538 23,418 26,089 22,085 23,802 22,699 23,390	43,679 32,941 22,504 25,764 21,786 23,517 22,301 23,359	40,571 33,551 23,608 26,704 22,150 23,803 21,664 23,026	36,226 30,180 24,624 26,155 22,302 23,540 21,033	51,271 33,768 27,188 25,822 25,232 25,135 24,343 23,116	47,609 33,643 24,126 26,754 24,026 23,054 23,769	40,571 33,551 23,608 26,704 22,150 23,803 21,664 23,026	40,571 33,551 23,608 26,704 22,150 23,803 21,664 23,026
1961 1962 1963 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977	22,749 24,682 24,654 23,141 23,575 27,357 35,385 36,653 40,124 33,147 30,905 33,734 35,171 38,249 40,619 42,110	22,695 24,261 24,085 23,539 23,161 27,151 35,040 36,454 38,873 31,913 31,098 33,554 35,287 37,963 40,008 41,512	22,748 24,437 23,748 23,170 23,106 27,476 34,420 36,140 37,472 30,770 30,144 32,480 34,766 37,249 39,473 41,046	22,309 24,465 23,106 22,992 23,120 26,709 34,202 35,733 36,150 29,740 29,846 32,152 34,297 37,264 38,589 41,029	21,435 23,216 21,831 22,575 22,927 28,685 34,791 28,583 29,170 30,675 33,409 35,600 37,120 39,742	22,662 24,048 22,573 22,790 24,429 31,838 37,267 38,306 35,232 30,510 28,554 31,347 34,621 37,545 39,557 42,152	32,546 35,500 39,626 41,470 43,366	23,605 24,805  36,793 39,691 34,620 30,372 31,286 33,684 37,069 40,594 43,248 42,525	24,496 24,783 24,089 35,554 38,163 41,657 30,986 31,376 34,563 36,829 41,055 43,084 43,351	24,726 25,136 23,744 27,071 35,966 38,547 41,906 34,530 30,832 32,619 35,251 38,039 41,201 43,754 47,890	24,242 25,203 23,503 27,079 35,711 37,641 40,970 33,702 30,807 32,110 35,009 37,680 40,949 42,767 48,988	24,792 24,796 23,419 23,624 27,094 35,450 37,366 39,904 33,109 30,408 31,388 34,601 37,244 40,407 41,551 50,354	22,748 24,437 23,748 23,170 23,106 27,476 34,420 36,140 37,472 30,770 30,144 32,480 34,766 37,249 39,473 41,046	22,662 24,048 22,573 22,779 24,429 31,883 37,267 38,306 35,232 30,510 28,554 31,347 34,621 37,545 39,557 42,152	24,496 24,783 24,089 35,554 38,163 41,657 30,986 31,376 34,563 36,829 41,055 43,084 43,351	24,792 24,796 23,419 23,624 27,094 35,450 37,366 39,904 33,109 30,408 31,388 34,601 37,244 40,407 41,551 50,354	24,792 24,796 23,419 23,624 27,994 35,450 37,366 39,904 33,109 30,408 31,388 34,601 37,244 40,407 41,551 50,354
	643. DEPE	NSE DEP	ARTMENT G	ROSS UNPA	ID OBLIC	ATIONS O	UTSTANDIN	G, TOTAL	, SEASON	ALLY ADJU	JSTED1			2	ND OF PER	10D	
1953 1954 1955 1956 1957 1958 1959	38,361 32,254 23,715 26,293 22,051 23,663 21,509	38,587 31,293 23,685 26,581 21,957 23,641 21,314	35,974 30,030 24,526 26,129 22,369 23,682 21,203	34,907 29,435 24,536 25,857 22,768 23,532 21,042	34,769 28,405 24,475 25,287 23,330 23,656 21,148	51,118 33,567 26,919 25,440 24,762 24,666 24,007 22,955	50,051 33,695 25,793	49,349 33,287 24,076  23,910 22,846 23,225	26,463	45,535 33,673 23,512 26,168 22,107 23,684 22,452 23,022	44,707 33,716 23,034 26,344 22,140 23,755 22,323 23,220	40,050 33,186 23,374 26,518 22,062 23,755 21,599 22,866	35,974 30,030 24,526 26,129 22,369 23,682 21,203	51,118 33,567 26,919 25,440 24,762 24,666 24,007 22,955	47,419 33,442 23,911 26,463 23,555 22,558 23,257	40,050 33,186 23,374 26,518 22,062 23,755 21,599 22,866	40,050 33,186 23,374 26,518 22,062 23,755 21,599 22,866
1961 1962 1963 1965 1966 1967 1968 1969 1971 1972 1973 1974 1975 1976	22,795 24,633 24,531 23,003 23,434 27,275 35,350 36,616 39,531 32,561 30,181 32,879 34,280 37,446 40,052 41,358	23,041 24,506 24,304 23,777 23,466 27,621 35,719 37,236 39,147 32,041 30,851 32,832 34,426 37,673 39,875 41,459	22,931 24,659 24,036 23,595 23,698 28,355 35,668 37,490 38,472 31,494 30,541 32,742 34,976 37,817 40,198 41,866	22,718 24,939 23,602 23,557 23,762 29,597 35,296 36,914 37,656 30,979 30,737 32,976 35,140 38,456 39,918 42,494	22,539 24,515 23,126 23,914 24,261 30,322 36,683 37,622 36,855 30,279 31,098 32,772 35,693 38,389 40,086 42,970	22,707 24,242 22,824 23,043 24,651 32,030 37,417 38,421 35,445 30,787 32,417 35,877 38,909 40,959 43,612	33,109 36,188 39,741 41,437 43,251	23,210 24,463  36,249 39,104 34,414 30,221 31,069 33,350 36,666 39,621 42,140 41,406	23,945 24,179 23,365 34,154 36,625 39,960 33,613 29,938 30,671 33,985 36,285 39,894 41,805 42,047	24,241 24,547 23,008 26,105 34,583 36,993 40,178 33,234 29,703 31,546 34,026 36,682 39,429 41,845 45,813	40,127 32,912 30,085 31,450 34,255	24,522 24,430 23,050 23,275 26,746 35,064 37,033 39,587 32,781 30,077 31,046 34,225 36,839 40,137 41,309 50,103	22,931 24,659 24,036 23,595 23,690 28,355 35,668 37,490 36,472 31,494 30,541 32,742 34,976 37,817 40,198 41,866	22,707 24,242 22,824 23,043 24,651 32,030 37,417 38,421 35,445 30,787 29,077 32,417 35,877 38,909 40,959 43,612	23,945 24,179 23,365 34,154 36,625 39,960 33,613 29,938 30,671 33,985 36,285 39,944 41,805 42,047	24,522 24,430 23,050 23,275 26,746 35,064 37,033 39,587 30,077 31,046 34,225 36,839 40,137 41,309 50,103	24,522 24,430 23,050 23,275 26,746 35,064 37,033 39,587 30,077 31,046 34,225 36,839 40,137 41,309 50,103
644.	DEFENSE	DEPARTM	ENT GROSS	UNPAID (	BLIGATIONS	ONS OUTST	ANDING, C	PERATIO	NS, NOT S	EASONALL	Y ADJUST	ED			ND OF PER	IOD	
1966 1967 1968 1969 1971 1971 1973 1974 1975 1976	5,041 5,127 6,141 5,236 5,072 5,303 5,741 7,425 7,997 8,947	4,892 5,127 5,638 4,912 4,791 5,021 5,589 7,055 7,550 8,538	4,644 4,975 5,528 4,726 4,779 4,635 5,273 6,779 7,169 7,966	4,761 4,938 5,315 4,631 4,534 4,439 5,424 7,044 7,276 8,253	4,765 4,577 5,010 4,403 4,342 3,891 5,227 6,476 6,746 7,795	4,513 4,952 4,676 4,490 4,077 4,211 5,301 7,373 7,303 8,037	4,739 6,200 8,149 8,733 8,939	5,115 5,887 5,600 5,095 5,186 5,043 6,754 8,426 8,677 8,569	5,015	5,270 6,477 5,593 5,224 5,586 5,845 7,519 8,607 9,259 10,624	£ 052	7,064 7,654 8,261	3,828 4,644 4,975 5,528 4,726 4,479 4,635 5,273 6,779 7,169 7,966	3,777 4,513 4,952 4,676 4,490 4,077 4,211 5,301 7,373 7,303 8,037	4,792 5,267 6,077 5,488 5,015 5,092 5,349 6,719 8,311 8,677 8,615	5,024 5,150 5,455 5,094 4,764 4,933 5,438 7,064 7,654 8,261	5,024 5,150 5,445 5,094 4,764 4,933 5,438 7,064 7,654 8,261
644.	DEFENSE	DEPARTM	ENT GROSS	UNPAID (	OBLIGATIONS	ONS OUTST	ANDING, (	OPERATIO	NS, SEASO	NALLY AD	JUSTED <sup>1</sup>				IND OF PER	RIOD	
1966 1967 1968 1969 1971 1972 1973 1974 1975	4,829 4,911 5,862 5,015 4,785 4,998 5,381 7,049 7,625 8,548	4,887 5,122 5,632 4,907 4,781 5,011 5,523 7,1626 8,681	4,822 5,166 5,740 4,908 4,685 4,864 5,586 7,319 7,775 8,658	5,001 5,187 5,583 4,885 4,823 4,727 5,807 7,552 7,794 8,827	5,208 5,002 5,475 4,871 4,824 4,323 5,886 7,401 7,713 8,914	5,042 5,533 5,225 4,923 4,545 4,700 6,044 8,129 8,005 8,780	4,881 6,385 8,046 8,548 8,717	4,876 5,612 5,338 4,834 4,944 4,807 6,420 7,908 8,132 8,025	4,767 4,850 5,104 6,454 7,881 8,216	4,804 5,904 5,098 4,715 5,019 5,019 6,660 7,648 8,247 9,484	5,808 5,132 4,799 5,053 5,270 6,673 7,469 8,353	5,413 5,064 4,754 4,928 5,384 6,994 7,630 8,241	3,817 4,822 5,166 5,740 4,685 4,685 4,864 5,586 7,319 7,775 8,658	4,101 5,042 5,533 5,225 4,923 4,545 4,700 6,044 8,129 8,005 8,780	4,661 4,946 5,706 5,153 4,767 4,850 5,104 6,454 7,881 8,216 8,160	4,794 5,119 5,413 5,064 4,754 4,928 5,384 6,994 7,630 8,241 10,353	4,794 5,119 5,413 5,064 4,754 4,928 5,384 6,994 7,630 8,241 10,353

NOTE: Unless otherwise noted, these series contain no revisions but are reprinted for the convenience of the user. ¹This series contains revisions beginning with 1974.

(DECEMBER 1977)

## Appendix C. HISTORICAL DATA—Continued

Year						Mor	nthly					-		Quar	terly	M.	, Ip
real	Jan,	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	lα	110	III Q	IV Q	Annual
645.	DEPENSE	DEPARTME	MT GROSS	UNPAID O	BLIGATIO	NS OUTST	ANDING, P	ROCUREME	NT, NOT S	EASONALL	Y ADJUST	ED,		EN	D OF PER	COD	
1966 1967 1968 1970 1971 1972 1973 1974 1975 1976	23,134 24,197 26,160 20,752 18,835 21,702 22,326 23,791 25,484 25,503	22,982 24,024 25,396 20,071 18,924 21,877 22,721 24,032 25,452 25,586	22,780 24,127 24,412 19,231 18,411 21,637 22,469 23,847 25,688 25,783	22,613 23,947 23,517 18,512 18,268 21,360 22,044 23,778 24,932 25,606	22,947 24,370 22,560 17,843 17,857 20,672 21,753 23,123 24,321 25,125	25,248 26,244 23,215 19,391 18,522 20,982 22,806 23,994 25,311 26,508	20,570 22,100 24,316 25,167 26,537	23,874 25,912 21,227 17,912 18,783 20,813 22,432 23,791 26,070 26,346	24,925 27,361 21,758 18,435 19,059 21,237 22,195 24,283 26,002 26,832	25,423 27,278 21,437 18,327 19,797 21,645 22,679 24,361 26,081 27,632	24,982 26,950 21,034 18,440 19,056 21,836 22,877 25,147 25,810 28,934	24,856 26,658 21,009 18,563 20,572 22,023 22,932 25,199 25,507 29,348	18,023 22,780 24,127 24,412 19,231 18,411 21,637 22,469 23,847 25,688 25,783	22,119 25,248 26,244 23,215 19,391 18,522 20,982 22,806 23,994 25,311 26,508	22,736 24,925 27,361 21,758 18,435 19,059 21,237 22,195 24,283 26,002 26,832	23,173' 24,856 26,658 21,009 18,563 20,572 22,023 22,932 25,199 25,507 29,348	23,173 24,856 26,658 21,009 18,563 20,572 22,023 22,932 25,199 25,507 29,348
645.	DEPENSE	DEPARTME	NT GROSS	UMPAID (	BLIGATIO	NS OUTST	ANDING, P	ROCURENE	NT, SEASO	NALLY AD	JUSTED			E	ID OF PER	TOD	
1966 1967 1968 1969 1970 1971 1972 1973 1975 1976	22,882 23,934 25,875 20,526 18,395 21,131 21,718 23,143 24,838 24,905	23,121 24,120 25,524 20,172 18,553 21,364 21,953 23,175 24,568 24,841	23,340 24,695 24,987 19,684 18,485 21,680 22,291 23,634 25,259 25,277	23,604 24,997 24,574 19,324 18,660 21,774 22,244 23,970 24,957 25,657	24,028 25,518 23,623 18,684 18,640 21,578 22,565 23,987 25,099 25,929	24,753 25,704 23,738 19,011 18,266 20,692 22,558 23,756 25,438 26,482	20,820 22,620 24,914 25,370 27,162	24,336 26,414 21,638 18,259 19,265 21,347 22,960 24,351 26,684 26,802	24,270 26,668 21,186 18,325 19,040 21,280 22,556 24,703 26,479 27,185	18,146 19,659 21,537 22,656 24,337 26,238 27,827	24,420 26,318 20,541 18,257 18,886 21,663 22,763 25,022 25,707 28,733	24,273 26,008 20,477 18,235 20,208 21,634 22,615 25,024 25,305 29,202	18,187 23,340 24,695 24,987 19,684 18,485 21,680 22,291 23,634 25,259 25,277	22,617 24,753 25,704 23,738 19,011 18,266 20,692 22,558 23,756 25,438 26,482	22,817 24,270 26,668 21,186 18,325 19,040 21,280 22,556 24,703 26,479 27,185	22,368 24,273 26,008 20,477 18,235 20,208 21,634 22,615 25,024 25,305 29,202	22,368 24,273 26,008 20,477 18,235 20,208 21,634 22,615 25,024 25,305 29,202
	80. DEPE	NSE DEPA	RTMENT NI NOT SI	ET OUTLAY	S, TOTAL ADJUSTE	, MILITA D (MILI	RY FUNCTI LIONS OF	ONS AND DOLLARS)	MILITARY	ASSISTAN	CE,		4.	TO	TAL FOR P	ERIOD	
1949 1950 1951 1952 1953 1955 1956 1957 1959 1959	993 1,651 3,534 3,814 3,366 2,963 2,970 3,535 3,349 3,460 3,277	916 1,643 3,292 3,735 3,397 2,862 3,002 3,374 3,275 3,355 3,488	1,019 2,060 3,585 4,216 3,574 3,357 3,082 3,490 3,339 3,634 3,749	937 2,170 3,929 4,191 3,425 3,132 3,096 3,629 3,412 3,674 3,438	1,002 2,463 3,907 3,957 3,112 3,099 3,227 3,699 3,408 3,409 3,448	824 2,609 3,747 4,316 4,270 3,792 4,436 3,774 4,063 4,275 3,737	1,005 974 2,978 4,098 3,452 2,764 2,638 2,666 3,441 3,491 3,513 3,249	1,126 1,116 3,052 3,206 3,720 3,101 3,190 3,368 3,658 3,323 3,467 3,730	986 1,033 2,630 4,084 3,862 3,013 3,405 2,983 3,207 3,643 3,558 3,679	967 1,283 3,242 3,923 3,947 3,087 3,013 3,559 3,389 3,971 3,715 3,510	1,009 1,464 3,174 3,497 3,472 3,024 2,923 3,351 3,240 3,356 3,465 3,647	1,067 1,530 3,223 4,272 3,961 3,428 3,292 3,362 3,467 3,981 3,968 3,986	2,928 5,354 10,411 11,765 10,337 9,182 9,054 10,399 9,963 10,449 10,514	2,763 7,242 11,583 12,464 10,807 10,023 10,759 11,102 10,883 11,358 10,623	3,117 3,123 8,660 11,388 11,034 8,898 9,233 9,017 10,306 10,457 10,538 10,658	3,043 4,277 9,639 11,692 11,380 9,539 9,228 10,272 10,096 11,308 11,148 11,143	13,091 30,895 45,074 46,643 39,581 37,666 39,102 41,903 42,611 43,493 42,938
1961 1962 1963 1964 1965 1966 1968 1969 1972 1972 1973 1975 1975 1975 1976	3,497 4,044 4,304 4,117 3,770 4,403 5,962 6,977 6,644 6,475 5,985 5,985 5,985 5,985 6,728 7,051 6,649	3,550 3,868 3,937 4,040 3,644 4,297 6,218 6,234 6,028 5,813 6,1054 6,054 6,054 6,962	4,043 4,338 4,143 4,288 5,397 6,695 6,121 6,626 6,508 6,702 7,244 7,642	3,526 4,046 4,289 4,321 4,145 4,811 6,117 6,906 6,726 6,604 6,131 6,539 6,222 6,685 7,190 7,872	3,891 4,528 4,244 4,418 4,045 4,673 5,934 6,986 6,531 6,323 5,838 6,911 6,213 7,204 7,780 7,042	4,368 4,378 4,370 5,461 4,704 6,125 7,368 7,408 7,889 8,765 7,889 8,785 7,875 7,875 7,875 7,875 7,875	3,205 3,692 3,973 3,264 3,627 4,667 6,166 5,610 6,630 5,001 4,987 5,005 5,979 7,124 7,433	3,808 4,208 4,154 4,162 5,404 6,587 6,502 6,667 5,441 5,669 7,961 7,163	3,646 3,823 4,976 4,354 5,356 6,484 6,556 5,840 5,212 5,948 6,631 7,513	3,837 4,360 4,391 3,985 4,295 5,346 6,816 7,053 6,161 5,943 6,107 7,271 7,271 7,271 7,478	4,035 4,331 3,792 4,326 5,339 6,123 5,972 6,313 5,972 6,313 6,747 7,203 7,301	4,072 4,125 4,244 4,907 5,757 6,679 6,656 6,498 6,063 7,451 7,695 7,422	11,090 12,250 11,530 12,300 11,702 14,097 18,236 19,504 18,922 18,306 19,045 19,178 19,814 21,553 21,253	11,785 13,352 12,903 14,200 12,894 15,669 18,014 21,260 20,665 19,619 19,858 22,219 20,289 21,761 22,446 22,757	10,659 11,723 12,144 10,784 12,143 15,844 19,109 18,596 19,553 18,890 16,282 15,878 17,621 19,824 21,716 22,109	11,944 12,816 12,602 12,021 13,528 16,442 18,455 19,910 19,792 18,493 18,483 19,246 22,195 22,811 22,201	45,478 50,141 49,179 49,305 50,267 61,992 73,814 79,082 79,514 72,859 75,625 76,334 83,594 88,526 88,320
	80. DEPE	NSE DEPA	RTMENT N	ET OUTLAY BASONALLY	S, TOTAL ADJUSTE	, MILITA	RY FUNCTI LIONS OF	ONS AND DOLLARS)	MILITARY	ASSISTAN	CE,		/×.	TO	TAL FOR P	ERIOD	
1949 1950 1951 1952 1953 1954 1955 1956 1959 1959	1,015 1,630 3,460 3,861 3,600 3,172 3,077 3,508 3,363 3,590 3,586	998 1,783 3,412 4,022 3,643 3,046 3,059 3,580 3,475 3,552 3,537	950 1,975 3,613 4,107 3,369 3,149 3,004 3,601 3,435 3,588 3,513	960 2,154 3,747 3,989 3,270 3,151 3,166 3,562 3,375 3,624 3,540	954 2,317 3,804 4,079 3,220 3,118 3,121 3,621 3,429 3,610 3,490	768 2,523 3,591 3,867 3,758 3,253 3,917 3,455 3,631 3,631 3,176	1,078 1,049 3,133 4,196 3,621 3,041 3,049 2,950 3,642 3,636 3,692 3,734	1,076 1,055 2,911 3,328 3,813 3,097 3,254 3,633 3,649 3,665	1,040 1,132 2,983 4,229 3,981 3,062 3,447 3,288 3,412 3,686 3,607 3,682	1,011 1,291 3,129 3,742 3,847 3,160 3,069 3,364 3,173 3,758 3,631 3,628	1,008 1,458 3,167 3,843 3,721 3,108 3,010 3,399 3,416 3,661 3,630 3,645	1,014 1,533 3,224 3,965 3,631 3,160 3,123 3,359 3,335 3,681 3,617 3,752	2,963 5,388 10,485 11,990 10,612 9,367 9,140 10,689 10,273 10,730 10,636	2,682 6,994 11,142 11,935 10,248 9,522 10,204 10,638 10,411 10,865 10,206	3,194 3,236 9,027 11,753 11,470 9,220 9,593 9,492 10,687 10,809 10,948 11,081	3,033 4,282 9,520 11,550 11,199 9,428 9,202 10,122 9,924 11,100 10,878 11,025	
1963 1964 1964 1965 1965 1966 1972 1973 1973 1975 1976	3,672 4,068 4,253 4,054 3,992 4,634 6,028 6,794 6,471 6,495 6,201 6,280 6,256 6,538 6,766 8,636	3,759 4,096 4,177 4,258 3,899 4,618 6,021 6,346 6,714 6,485 6,162 6,205 6,377 6,717 7,590 7,011	3,800 4,179 3,322 4,001 4,900 6,091 6,025 6,608 6,194 6,341 6,366 6,341 6,366 7,190 7,334	3,781 4,187 4,226 4,237 4,036 4,884 6,460 6,724 6,490 6,323 5,813 6,722 6,194 6,458 6,958 7,703	3,770 4,392 4,048 4,590 4,236 4,753 5,830 6,959 6,714 6,416 5,982 6,623 5,896 6,745 7,494 7,200	3,711 4,256 4,057 4,674 4,035 5,214 5,061 6,571 5,655 7,130 6,597 6,894 6,336 6,525	3,720 4,176 4,356 3,566 4,069 5,521 7,279 6,022 6,715 7,302 5,771 6,107 5,978 8,278 8,663	3,713 4,136 4,203 3,768 4,255 5,315 6,404 6,343 6,838 6,519 5,712 5,766 6,716 7,254 8,594 7,493	3,808 4,149 4,193 3,949 5,599 6,464 6,473 6,276 5,599 5,502 6,598 7,488 7,794	3,837 4,208 4,188 3,918 4,449 5,521 6,399 6,495 6,747 6,136 6,237 6,444 7,732 7,732	4,001 4,290 4,091 4,030 5,515 6,375 6,805 6,764 6,070 6,303 6,683 7,648 7,574 7,294	4,054 4,122 4,163 3,958 4,639 5,627 6,022 6,553 6,341 6,217 6,232 6,228 7,549 7,672 7,096	11,231 12,343 11,752 12,313 11,852 14,152 18,140 19,165 19,793 19,174 18,445 18,826 18,939 19,791 21,546 20,981	11,262 12,745 12,331 13,501 12,307 14,851 17,351 20,452 19,775 18,339 18,335 20,475 16,687 20,097 20,788 21,428	11,241 12,461 12,752 11,283 12,585 16,435 20,117 19,028 20,026 20,097 17,442 17,375 19,292 21,638 23,752 23,950	11,892 12,620 12,442 11,906 13,512 16,663 16,796 20,142 20,064 18,571 18,426 18,772 19,355 22,327 22,978 21,990	

## Appendix C. HISTORICAL DATA—Continued

Year						Mon	thly							Quart	erly	the !	
rear	Jan.	Feb.	Mar.	Apr.	May	June	July,	Aug.	Sept.	Oct.	Nov.	Dec.	10	II Q	III Q	IVa	Annual
	680. DEFE	NSE DEPA	RTMENT N	ET OUTLAY ERAGE OF	S, TOTAL	, MILITA	RY FUNCTI TED DATA	ONS AND	MILITARY ONS OF D	ASSISTAN	CE,				75-		
1949 1950 1951 1952 1953 1954 1955 1956 1959 1960	999 1,612 3,334 3,923 3,635 3,133 3,057 3,469 3,366 3,638 3,586	991 1,756 3,437 3,965 3,539 3,131 3,073 3,502 3,400 3,616 3,571	982 1,899 3,543 4,004 3,456 3,133 3,092 3,539 3,402 3,608 3,547	941 2,064 3,605 3,988 3,477 3,148 3,224 3,555 3,447 3,599 3,474	947 2,314 3,727 3,948 3,384 3,128 3,203 3,577 3,493 3,616 3,498	956 2,502 3,713 3,922 3,296 3,136 3,235 3,586 3,495 3,632 3,520	986 2,670 3,816 3,901 3,245 3,186 3,283 3,554 3,553 3,636 3,548	1,042 2,833 3,815 3,877 3,226 3,172 3,316 3,489 3,601 3,637 3,563	1,126 2,974 3,822 3,818 3,208 3,154 3,362 3,455 3,639 3,640 3,588	1,038 1,253 3,091 3,884 3,778 3,108 3,133 3,269 3,435 3,652 3,638 3,684	1,027- 1,350 3,146 3,828 3,775 3,130 3,137 3,362 3,389 3,644 3,620 3,674	1,014 1,471 3,229 3,944 3,737 3,118 3,131 3,416 3,362 3,655 3,601 3,690					
961 962 963 965 966 967 969 970 971 973 974 977	3,709 4,039 4,039 4,126 3,960 4,611 5,801 6,327 6,656 6,540 6,169 6,209 6,295 6,295 6,295 7,312 7,326	3,735 4,098 4,065 4,134 3,979 4,683 5,957 6,381 6,655 6,469 6,115 6,306 6,288 6,527 7,284 7,322	3,756 4,148 4,025 4,217 4,014 4,738 6,640 6,478 6,640 6,411 6,097 6,398 6,220 6,537 7,258 7,259	3,749 4,181 4,014 4,027 4,834 5,915 6,603 6,261 6,130 6,550 6,261 7,056	3,757 4,199 4,031 4,221 4,039 4,982 6,124 6,474 6,635 6,058 6,058 6,521 6,712 7,308 7,406	3,749 4,206 4,035 4,139 4,099 5,098 6,474 6,656 6,474 6,402 5,983 6,448 6,291 6,801 7,475 7,486	3,751 4,201 4,181 4,131 4,149 5,214 6,245 6,580 6,634 6,415 5,963 6,308 6,308 6,956 7,423 7,563	3,760 4,205 4,174 4,078 4,218 5,321 6,235 6,576 6,384 6,017 6,228 6,371 7,068 7,552 7,546	3,798 4,203 4,181 3,984 4,249 5,448 6,325 6,516 6,685 6,330 6,174 6,503 7,218 7,566 7,562	3,856 4,180 4,199 3,865 4,349 5,516 6,486 6,528 6,682 6,455 5,978 6,024 6,441 7,328 7,788 7,657	3,914 4,193 4,149 3,936 4,444 5,601 6,405 6,636 6,049 6,534 7,302 7,515 7,477	3,977 4,200 4,158 3,958 4,504 5,719 6,395 6,665 6,586 6,202 6,145 6,151 6,535 7,358 7,251 7,614					
		581. DEPE	NSE DEPA	RTMENT NE	T OUTLAN	OF DOLL	TIONS, NO	T SEASO	NALLY ADJ	USTED				70	TAL FOR P	BRIOD	-
959	1,676	1,837	1,947	1,698	1,806	1,877	1,875	1,826	1,854	1,940	1,811	1,936 1,950	5,460	5,381	5,555 5,734	5,687 5,690	22,2
1961 1962 1963 1964 1965 1966 1968 1969 1970 1971 1972 1974 1975 1977	1,813 2,048 2,030 2,146 2,243 3,550 3,651 3,877 3,687 3,971 4,119 4,376 4,775 4,887	1,798 1,970 2,000 2,098 2,058 2,477 3,219 3,273 3,761 3,680 3,685 4,013 4,013 4,013 4,137 4,727 4,848	1,950 2,073 2,004 2,071 2,233 2,689 3,516 3,416 3,609 3,782 3,954 4,307 4,217 4,398 4,736 5,026	1,787 2,034 2,037 2,246 2,368 2,765 3,416 3,622 4,037 4,186 4,031 4,294 4,087 4,367 4,960 5,297	1,950 2,295 2,177 2,148 2,143 2,700 3,335 3,759 3,907 4,011 3,745 4,535 4,718 4,909 4,889	2,128 2,312 2,282 2,706 2,900 3,611 3,980 4,417 4,727 4,812 4,812 4,812 4,271 4,537 4,835 4,954 5,170	1,736 1,879 2,045 2,027 2,170 2,475 2,898 3,237 3,527 3,844 3,632 3,972 4,628 4,918 5,050	2,034 2,226 2,087 2,187 3,024 3,732 4,187 3,859 3,710 3,928 4,279 4,804 5,081 5,059	1,962 1,921 2,068 2,215 2,378 3,469 3,885 3,887 3,885 3,887 4,027 4,575 4,575	2,036 2,171 2,233 2,326 2,601 3,081 3,641 3,725 4,095 3,845 3,925 4,105 4,817 5,260 4,984	2,109 2,038 2,148 2,169 2,624 2,997 3,456 3,779 3,920 3,615 3,877 4,084 4,359 4,912 4,997 5,277	2,061 2,079 2,131 2,251 2,732 3,009 3,397 4,001 3,855 3,971 4,188 4,012 4,066 4,742 5,078 5,356	5,561 6,091 6,034 6,315 6,534 7,690 10,002 11,339 11,339 12,291 12,324 12,911 14,238 14,761	5,865 6,641 6,496 7,100 7,411 9,076 10,731 11,798 12,671 12,679 12,588 13,100 12,657 13,920 14,823 15,356	5,732 6,026 6,200 6,429 6,740 8,968 10,002 10,865 11,599 11,167 11,705 11,975 14,007 14,809 15,566	6,206 6,288 6,512 6,746 7,957 9,087 11,505 11,870 11,454 11,910 12,021 12,530 14,471 15,335 15,617	23,3 25,0 25,2 26,5 28,6 34,8 41,4 47,1 47,1 47,9 49,1 49,1 55,3 59,2 61,3
		681.	DEFENSE	DEPARTMEN ()	T NET OF	OF DOLLA	PERATIONS ARS)	S, SEASO	NALLY ADD	USTED1			-	20	TAL FOR P	RRIOD	
959	1,791	1,849	1,924	1,763	1,830	1,658	1,933	1,851	1,840 1,923	1,886	1,852	1,836	5,564	5,251	5,624 5,811	5,574 5,621	
961 962 963 964 965 966 967 970 971 1972 1973 1974 1976	1,915 2,070 2,050 2,114 2,331 2,618 3,304 3,498 3,512 3,769 4,144 4,107 4,333 4,648 4,940	1,884 2,071 2,113 2,197 2,642 3,445 3,383 4,012 3,917 4,069 4,162 4,313 4,924 4,879	1,903 2,111 2,099 2,152 2,234 2,701 3,481 3,557 3,824 3,886 3,911 4,112 4,167 4,364 4,831 4,995	1,919 2,107 2,051 2,202 2,312 2,741 3,496 3,590 3,903 3,965 3,822 4,248 4,248 4,221 4,856 5,160	1,902 2,250 2,114 2,234 2,826 3,371 3,702 4,015 4,048 3,842 4,459 3,946 4,536 4,941 5,023	1,875 2,053 2,058 2,286 2,376 2,922 3,221 3,777 3,958 3,820 4,026 3,615 3,935 4,644 4,747 4,925	1,932 2,069 2,187 2,166 2,434 2,862 3,429 3,666 4,017 4,078 3,972 4,436 4,717 4,977 5,135	1,953 2,117 2,071 2,253 2,262 3,581 3,653 4,015 3,832 3,937 4,228 4,805 5,029 5,054	3,437 3,955 3,920 3,932 3,867 3,975 4,316 4,736 5,016	2,001 2,050 2,111 2,241 2,553 3,038 3,594 3,883 3,971 4,079 4,156 4,839 5,131 5,015	3,429 3,844 4,090	2,058 2,108 2,140 2,202 2,656 3,049 3,526 4,162 3,904 4,059 4,059 4,053 4,226 4,815 5,067 5,190	5,702 6,252 6,262 6,463 6,756 7,961 10,230 10,438 11,723 11,557 12,436 13,010 14,403 14,814	5,696 6,410 6,223 6,722 6,954 8,489 10,088 11,069 11,876 11,833 11,690 12,322 11,851 13,401 14,544 15,108	5,881 6,222 6,400 6,655 7,053 9,341 10,447 11,274 12,044 12,025 11,671 12,348 12,562 14,258 15,022	6,137 6,172 6,425 6,658 7,852 9,073 10,543 11,600 11,877 11,600 12,026 12,246 12,760 14,482 15,186	

## Appendix C. HISTORICAL DATA—Continued

Year	Monthly													-				
	Jan,	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	ا ۵ اا	III Q	ΙVΩ	Annua	
	6	82. DEFE	INSE DEPA	RTMENT NE	T OUTLAY	S, PROCU	REMENT, 1	OT SEASO	NALLY AD	JUSTED	1			TO	TAL FOR P	ERIOD		
1953 1954 1955 1956 1957 1958 1959	1,369 1,165 1,005 1,361 1,271 1,264 1,094	1,441 1,050 1,175 1,352 1,333 1,319 1,173	1,297 1,326 1,105 1,391 1,409 1,365 1,227	1,164 1,163 1,221 1,471 1,380 1,412 1,230	1,089 1,276 1,174 1,377 1,374 1,325 1,119	1,468 1,462 1,987 1,661 1,630 1,758 289	1,204 1,032 952 901 1,351 1,260 1,197 1,044	1,586 1,318 1,137 1,121 1,364 1,210 1,191 1,127	1,491 1,103 1,130 1,005 1,219 1,330 1,450 1,200	1,617 1,289 1,109 1,264 1,156 1,482 1,475 1,184	1,127 1,189 1,024 1,223 1,302 1,307 1,266 1,239	1,107 1,394 1,236 1,274 1,392 1,494 1,478 1,399	4,107 3,541 3,285 4,104 4,013 3,948 3,494	3,721 3,901 4,382 4,509 4,384 4,495 2,638	4,281 3,453 3,219 3,027 3,934 3,800 3,838 3,371	3,851 3,872 3,369 3,761 3,850 4,283 4,219 3,822	15,15 14,03 14,45 16,39 16,48 16,50 13,32	
1961 1962 1963 1964 1965 1967 1968 1971 1971 1974 1975 1975 1976	1,126 1,307 1,362 1,132 917 1,095 1,680 2,274 2,089 1,698 1,440 1,276 1,355 1,270 1,427 1,363	1,257 1,287 1,239 1,234 873 1,070 1,491 1,913 1,950 1,632 1,423 1,367 1,243 1,195 1,351 1,227	1,432 1,474 1,353 1,147 1,081 1,486 1,903 1,680 2,158 2,035 1,549 1,666 1,439 1,313 1,500 1,195	1,209 1,345 1,420 1,203 1,077 1,177 1,783 2,109 2,009 1,804 1,343 1,456 1,287 1,382 1,220 1,792	1,317 1,456 1,465 1,493 1,077 1,039 1,850 1,608 1,921 1,687 1,346 1,621 1,315 1,292 1,467 1,092	1,407 1,606 1,962 1,715 601 1,669 2,041 2,156 1,633 1,878 2,390 1,649 1,346 1,409 1,418	1,105 1,133 1,198 1,001 1,162 1,560 2,037 1,627 1,758 1,807 895 1,675 863 801 1,225 1,347	1,181 1,314 1,204 825 1,124 1,367 1,982 2,053 1,861 1,545 1,143 975 1,450 1,348 1,559 1,063	1,229 1,216 1,198 969 1,056 1,465 2,041 1,944 1,884 1,313 1,072 1,239 1,251 1,191 1,356	1,204 1,283 1,336 970 1,046 1,293 2,005 2,081 2,063 1,590 1,317 1,306 1,487 1,455 1,500	1,317 1,403 1,234 968 955 1,343 1,890 2,015 1,688 1,509 1,322 1,254 1,268 1,372 1,081	1,391 1,311 1,256 1,482 1,460 1,628 1,704 1,985 1,840 1,734 1,366 1,084 1,124 1,439 1,319 1,745	3,815 4,068 3,954 3,5513 2,871 3,651 5,074 5,867 6,197 5,365 4,412 4,330 4,037 4,037 4,778 4,278 3,785	3,933 4,407 5,047 4,411 2,755 3,885 5,282 5,758 6,086 5,124 4,567 5,467 4,251 4,020 4,096 4,302	3,515 3,663 3,660 2,795 3,342 4,392 6,060 5,624 5,503 5,046 3,351 3,722 3,552 3,400 3,975 3,766	3,912 3,997 3,420 3,461 4,264 5,599 6,081 5,591 4,833 4,005 3,879 4,266 3,900 4,584	15,17 16,13 16,42 14,13 12,42 16,19 22,01 23,33 23,37 20,36 16,33 17,14 15,71 15,46 16,24	
	6	82. DEFE	INSE DEPA	RTMENT NE	T OUTLAN	S, PROCU	REMENT, S	EASONALI	Y ADJUST	BD		12	TOTAL FOR PERIOD					
1953 1954 1955 1956 1957 1958 1959	1,436 1,259 1,060 1,384 1,333 1,336	1,433 1,046 1,137 1,357 1,345 1,340 1,184	1,258 1,244 1,054 1,374 1,422 1,318 1,122	1,129 1,148 1,257 1,429 1,328 1,391 1,228	1,187 1,341 1,170 1,387 1,376 1,362 1,118	1,168 1,180 1,609 1,399 1,409 1,464 245	1,461 1,248 1,179 1,096 1,592 1,433 1,377 1,240	1,614 1,305 1,123 1,131 1,422 1,342 1,370 1,230	1,569 1,181 1,197 1,114 1,351 1,367 1,454 1,197	1,511 1,253 1,111 1,200 1,067 1,396 1,404 1,218	1,311 1,298 1,082 1,270 1,348 1,382 1,335 1,211	993 1,276 1,136 1,247 1,312 1,370 1,315 1,274	4,127 3,549 3,251 4,115 4,100 3,994 3,506	3,484 3,669 4,036 4,215 4,113 4,217 2,591	4,644 3,734 3,499 3,341 4,365 4,142 4,201 3,667	3,815 3,827 3,329 3,717 3,727 4,148 4,054 3,703		
1961 1962 1963 1964 1965 1966 1966 1969 1971 1972 1973 1974 1975 1976	1,227 1,387 1,399 1,171 979 1,191 1,762 2,223 2,032 1,717 1,546 1,372 1,367 1,262 1,428 1,384	1,301 1,349 1,319 1,301 1,960 1,190 1,670 1,981 2,116 1,750 1,526 1,391 1,329 1,276 1,444 1,293	1,340 1,391 1,326 1,111 1,016 1,343 1,732 1,637 2,133 1,905 1,382 1,476 1,291 1,241 1,440 1,082	1,248 1,394 1,395 1,183 1,051 1,171 2,840 2,035 1,948 1,756 1,310 1,528 1,330 1,355 1,194 1,884	1,243 1,290 1,465 1,356 1,004 946 1,843 1,780 1,780 1,780 1,243 1,227 1,406 1,095	1,193 1,407 1,795 1,527 1,535 1,541 1,396 1,861 1,954 1,376 1,557 1,952 1,371 1,165 1,215	1,339 1,295 1,290 1,016 1,131 1,520 2,199 1,675 1,795 1,856 924 1,810 907 810	1,250 1,400 1,270 920 1,204 1,423 1,954 2,021 1,936 1,671 1,002 1,513 1,425 1,634 1,055	1,255 1,303 1,318 999 1,103 1,503 2,056 2,033 1,844 1,693 1,323 1,111 1,344 1,344 1,343 1,217 1,423	1,219 1,296 1,341 1,104 1,134 1,445 2,062 2,062 1,993 1,545 1,346 1,299 1,425 1,377 1,425 1,303	1,303 1,388 1,274 1,085 1,043 1,486 2,010 2,126 1,857 1,644 1,331 1,349 1,501 1,220 1,617	1,323 1,278 1,181 1,318 1,317 1,463 1,722 2,011 1,835 1,731 1,390 1,189 1,250 1,569 1,427 1,781	3,868 4,127 4,044 3,583 2,955 3,724 5,164 5,372 4,454 4,239 3,987 4,312 3,759	3,684 4,091 4,655 4,066 2,590 3,658 5,079 5,545 5,891 4,912 4,266 5,044 3,944 3,747 3,815 4,223	3,844 3,998 3,878 2,935 3,438 4,446 6,209 5,729 5,575 5,220 3,468 3,923 3,764 3,578 4,119 3,804	3,845 3,962 3,796 3,407 4,394 6,141 5,685 4,920 4,120 3,819 4,024 4,024 4,701		
682.	DEPENSE	DEPARTM	INT NET O	OTLAYS, F	ROCUREMI	OF DOLLA	NTH MOVI	G AVERAG	GE OF SEA	SONALLY A	ADJUSTED	DATA						
1953 1954 1955 1956 1957 1958 1959	1,324 1,229 1,097 1,306 1,304 1,357	1,260 1,212 1,121 1,344 1,348 1,356 1,230	1,239 1,219 1,135 1,363 1,352 1,353 1,194	1,268 1,203 1,214 1,389 1,369 1,369 1,016	1,237 1,190 1,220 1,423 1,385 1,375 1,023	1,216 1,202 1,219 1,434 1,385 1,380 1,030	1,203 1,195 1,229 1,430 1,376 1,403 1,043	1,224 1,189 1,220 1,370 1,387 1,405 1,041	1,242 1,145 1,237 1,363 1,388 1,401 1,057	1,410 1,260 1,138 1,176 1,349 1,382 1,376 1,228	1,406 1,262 1,118 1,224 1,305 1,366 1,346	1,376 1,219 1,121 1,262 1,293 1,365 1,315 1,238						
1961 1962 1963 1964 1965 1966 1967 1970 1971 1972 1973 1974 1975 1977	1,262 1,328 1,334 1,233 1,060 1,203 1,593 2,070 1,843 1,562 1,393 1,301 1,300 1,460 1,305	1,267 1,358 1,351 1,203 1,068 1,209 1,659 2,061 1,803 1,823 1,424 1,306 1,289 1,429 1,429	1,272 1,356 1,364 1,217 1,054 1,193 1,718 1,875 2,038 1,790 1,482 1,453 1,291 1,268 1,414 1,361	1,258 1,370 1,450 1,275 924 1,230 1,707 1,898 2,029 1,714 1,453 1,547 1,322 1,254 1,354 1,330	1,277 1,354 1,432 1,249 1,285 1,780 1,806 1,989 1,737 1,350 1,620 1,245 1,179 1,328 1,321	1,269 1,363 1,424 1,185 990 1,324 1,827 1,813 1,959 1,724 1,299 1,255 1,276 1,206	1,255 1,348 1,422 1,167 1,005 1,351 1,881 1,879 1,911 1,689 1,289 1,285 1,222 1,338	1,250 1,332 1,413 1,137 1,019 1,396 1,918 1,653 1,653 1,295 1,456 1,300 1,224	1,260 1,348 1,381 1,092 1,025 1,486 1,953 1,896 1,631 1,293 1,417 1,318 1,270 1,330 1,328	1,281 1,327 1,279 1,057 1,155 1,473 2,000 1,979 1,876 1,690 1,265 1,290 1,298 1,338 1,345 1,418	1,289 1,344 1,259 1,051 1,165 1,514 2,004 2,038 1,864 1,638 1,339 1,216 1,357 1,440 1,384 1,462	1,336 1,331 1,264 1,058 1,163 1,555 2,009 2,054 1,833 1,614 1,368 1,271 1,318 1,444 1,328 1,561						

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## POSTAGE AND FEES PAID U.S. DEPARTMENT OF COMMERCE COM-209

FIRST CLASS MAIL



#### AI PHARETICAL INDEX—SERIES FINDING GUIDE

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Cash receipts associated with military sales contracts	696		ice of pays							1	
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Contracts under \$10,000	636 637	***	19 19	10/76	8/68 8/68	Defense Department, total  Outside Government for national defense	617 623	6	15	11/77	8/
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Missile and space systems	627	***	16	10/76	8/68	Defense Department, operations	644	***	20	12/77	8/
Other hard goods	632		18	10/76	8/68 8/68	Defense Department, procurement	645 643	7	20	12/77	8/
Ships	628		1.7	10/76	8/68	Operations, Defense Department					
Soft goods	633 625	7	18 16	10/76	8/68	Net outlays	881 619	See Outl	ays. gations inc	urend	
Waspons and ammunition	629		17	10/76	8/68	Unpaid obligations outstanding	644	See Obli	gations ou	tstanding.	
Work outside the United States	640		19	10/76	8/68	Orders—See New orders and Unfilled orders.			I		1
						Outlays Budget outlays for national defense function	683	11	25	11/77	10/
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Defense Department	001	000 000	I	I	i equipment.	Defense Department, procurement Defense Department, total	682 680	11	25 24	12/77	8/
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personnel. Progress payments outstanding	686	See Prop	ress peymo	I mate	1	Procurement, Defense Department			1	1	1
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			1	1	1	Unpaid obligations outstanding	645	See Obli	igations ou	tstanding.	
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Accession rate, defense products industries	654	See Acce	ssion rate.		1	Purchases or goods and services for national detense	264	266 GLO	ss national	product.	
Employment, production workers, defense products			1	1	1						1
industries	671	10	23		4/73	Defense products	688	12	26	2/77	2/
Hours, defense products industries	673	See Hou	rs.	1 20///	1 473	Defense products industries	687	12		11/72	2
Layoff rate, defense products industries  Overtime hours, defense products industries  Personnel—See Civilien personnel and Military	655 653	See Laye See Over	off rate. time hour			Retio, inventories to shipments, defense products Retio, inventories to shipments, defense products industries	693 692	See Inve	entories.		
personnel. Expenditures—See Outleys.	4					Ratio, unfilled orders to shipments, defense products Ratio, unfilled orders to shipments, defense products industries	691	See Unf	illed order	s.	
						To Government, serospace industries	689	12	26	10/77	2/
Federal purchases of goods and services for national			1	1	1						
defense	264	See Gro	s national	product.		Transfers under military agency sales contracts	546	See Bala	ance of pay	ments.	•
Gross national product		1				Unfilled orders, manufacturers'			ľ	1	1
Federal purchases of goods and services for national						Defense products	661	9	22	2/77	2/
Gross national product	264 200	5	14		10/73		660	9	22	7/71	2/
mational defense purchases as percent of GNP	613	5	14		10/73		664 691	12	26	2/77	2/
Gross obligations incurred—See Obligations incurred. Gross unpaid obligations outstanding—See Obligations						Retio to shipments, defense products industries	890	12		11/72	2/
outstanding.	1	1	1		1	Unpaid obligations outstanding—See Obligations outstanding.		1			

